

ELECTRO FREEZE®

Operator's Manual

with Illustrated Parts List

***FREEDOM* 360°**
Series

**Soft Serve Twist Freezer
Model 30T-RMT**

P/N 184952 - 12/02

Operator's Manual
for
Electro Freeze Freedom 360° Series
Soft Serve Twist Freezer
Model 30T-RMT

SAFETY FIRST!

Follow these four steps to safety

1. Recognize Safety InformationLook for this safety alert symbol throughout this manual.



When you see this symbol on your freezer or in this manual, be alert to the potential for personal injury. Follow recommended precautions and safe operating practices.

2. Understand Signal Words



The signal words — DANGER, WARNING and CAUTION — are used with the safety alert symbol (DANGER decals on the freezer may or may not have the safety alert symbol, but the message is the same). Decals with the words DANGER, WARNING or CAUTION appear on the freezer. DANGER identifies the most serious hazard. Decals with the words DANGER or WARNING are typically near specific hazards on the freezer. General precautions are listed on CAUTION safety decals. In this manual, CAUTION messages with the safety alert symbol  call attention to safety messages.

SAFETY FIRST! (continued)

3. Follow Safety Instructions



Read and understand all safety messages in this manual. Read and understand the decal safety messages on your freezer. Take notice of the location of all decals on the freezer and keep the safety decals in good condition. Check them periodically and replace missing, damaged or illegible safety decals. The safety decals must remain in place and legible for the life of the freezer. If you need new decals, use the information and illustrations on pages iv and v of this manual to identify the decals and order replacements.

DO NOT attempt to operate the freezer until you read and understand all safety messages and the operating instructions in this manual.

4. Operate Safely



DO NOT allow untrained personnel to maintain or service this machine. Failure to follow this instruction may result in severe personal injury. **DO NOT** operate the freezer unless all service panels and access doors are secured with screws. **DO NOT** attempt to repair the freezer until the main power supply has been disconnected. Some freezers have more than one disconnect switch. Contact your local Electro Freeze Distributor for authorized service.

Safety Decal Locations

Do not attempt to operate the freezer until all safety precautions and operating instructions in this manual are read and understood.

Take notice of all warning, caution, instruction and information decals (or labels) on the freezer as shown in the figure to the right. The labels have been put there to help maintain a safe working environment.

The labels have been designed to withstand washing and cleaning. All labels must remain legible for the life of the freezer. Check labels periodically to be sure they can be recognized as warning labels.

If it is necessary to replace *any* label, please contact your local authorized Electro Freeze Distributor or H. C. Duke & Son, Inc. When ready to order, you will need to determine the (1) part number, (2) type of label, (3) location of label, and (4) quantity required, and include a return shipping address.

You may contact your local authorized Electro Freeze Distributor, as follows:

Name: _____

Address: _____

Phone: _____

or — for factory service assistance — contact H. C. Duke & Son, Inc., Electro Freeze Service Department by phone or FAX:

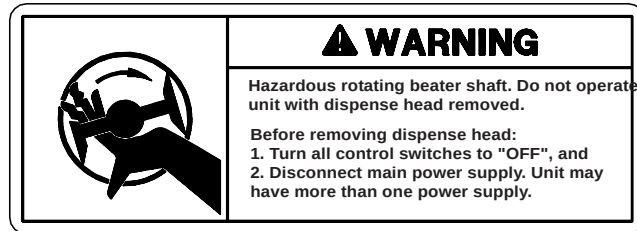


Phone: (309) 755-4553
FAX: (309) 755-9858

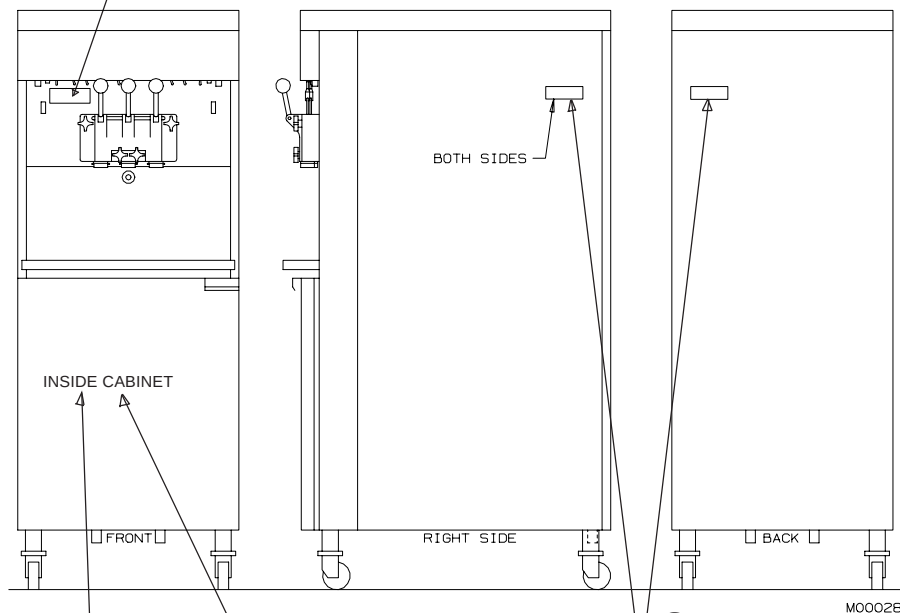
(The decals on the next page are numbered 1, 2, 3, and 4. Those numbers correspond to the numbers in the table below. The table provides the part number, description, and quantity for each decal.)

No.	Part No.	Description (Qty)
1	P/N 165025	Decal — Beater Warning (1)
2	P/N 165126	Decal — Panel Removal Warning (3)
3	P/N 165246	Decal — Pressurized System Warning (1)
4	P/N 165048	Decal — Warning Rotating Parts (2)

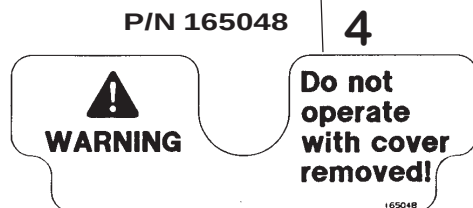
Safety Decal Locations (continued)



1 P/N 165025



2 P/N 165126



4

3

P/N 165246

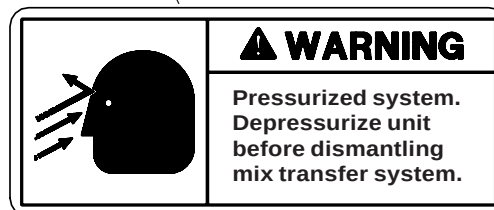
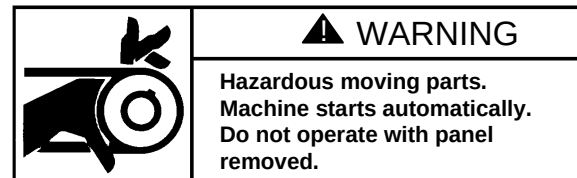


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Part II

Model 30T-RMT Replacement Parts Manual	
with Illustrations	*

* Refer to Part II Table of Contents for help with locating part numbers and illustrations.



1 Introduction

The 30T-RMT freezers are designed to produce soft serve ice cream, ice milk, yogurt, and similar frozen dairy products, with a product serving temperature range of 15 to 25°F (-9 to -4°C). If such products are prepared from powdered concentrate, they should be precooled to 40°F (4°C) prior to introduction to the freezer. Use of other products in this machine is considered misuse (see Warranty).

This manual has been prepared to assist you in the proper operation and general maintenance of the Electro Freeze Soft Serve Model 30T-RMT.

Your freezer will not compensate for or correct any assembly or priming errors made during the initial start-up; therefore, it is important to follow the assembly and priming procedures detailed in this manual.

Make sure all personnel responsible for equipment operation completely read and understand this manual before operating the freezer. When properly operated and maintained, the freezer will produce a consistent quality product.

If you require technical assistance, please contact your local authorized Electro Freeze Distributor as follows:

Name _____

Address: _____

Phone: _____

For factory service assistance — contact H. C. Duke & Son, Inc., *Electro Freeze* Service Department as follows:



Phone: (309) 755-4553

FAX: (309) 755-9858

2 Note to Installer

This freezer must be installed and serviced by an *Electro Freeze* Distributor or authorized service technician in accordance with the installation instructions.

After installation, the warranty registration card must be completed and returned to validate the warranty.

2.1 Uncrating and Inspection



CAUTION
Be sure to properly support the machine when removing bolts and installing legs or casters.

When the unit is received and while the carrier is still present, inspect the shipping carton for any damage that may have occurred in transit. If the SHOCKWATCH® label indicates red and/or the carton is broken, torn, or punctured

note the damage on the carrier's freight bill and notify the carrier's local agent immediately. also note on the freight bill

1. Remove the carton from the pallet, and move the machine as close as possible to the permanent location.
2. Remove the shipping bolts on the bottom of the freezer (figure 2-1) and install either the legs or casters (figure 2-2).

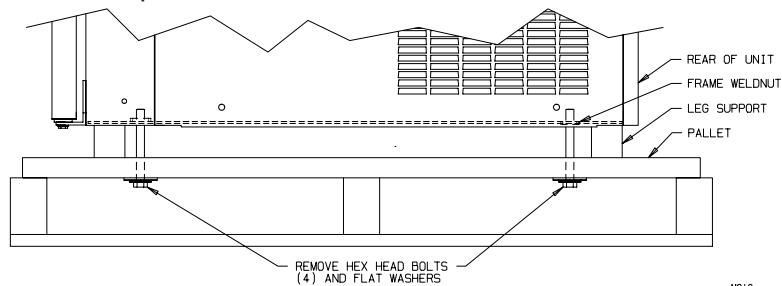


Figure 2-1 Machine bolted to Shipping Base

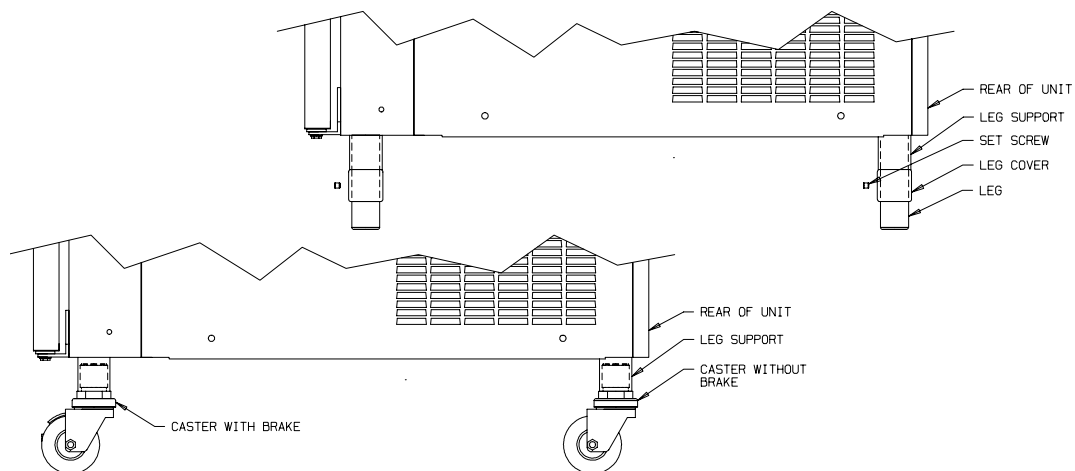


Figure 2-2 Installing Mounting Legs or Casters

2.2 Installation



CAUTION
All materials and connections must conform to local requirements and be in compliance with the National Electrical Code.

1. This freezer is designed for indoor use and must be protected from outdoor weather conditions.

2. Where codes permit, Electro Freeze recommends that the freezer be installed on casters and have flexible water and electrical connections for easier service and cleaning.

— continued

2.2 Installation (continued)

3. **Air cooled** models require a minimum 6 inch (15 cm) clearance on either the side panels or the rear panel for adequate ventilation. Freezers designed with top air discharge require at least 18 inches (45 cm) above the top panel be free of obstructions. Anything blocking ventilation of the freezer (including cone dispensers) will reduce the efficiency of the freezer.

4. **Water cooled** double models will require a 1/2 inch MPT water inlet and water waste connection. Both condensers are tied together so that one water inlet and one water waste is all

that is required. The connections are found on the bottom under the compressor mounting area and are clearly tagged "Water Inlet" and "Water Waste." A manual shut-off valve should be installed in the water inlet line at the time of installation. The water pressure must be between 35-140 psig (241-965 kPa) for proper operation.

5. Place the freezer in the final location and level by adjusting the legs or casters so that it is level side-to-side and the front is approximately 1/4 inch (6 mm) lower than the rear to allow proper drainage of the freezing cylinder.

2.3 Electrical Requirements



CAUTION
To prevent accidental electrical shock, a positive earth ground is required.

1. Always verify electrical specifications on the data plate of each freezer. Data plate specifications will always supersede the information in this manual.

2. Supply voltage must be within $\pm 10\%$ of voltage indicated on the nameplate. Also, on three-phase systems, voltage between phases must be balanced within 2%. (More than a 6 volt difference between any two voltage measurements at 208-230 volts indicates a possible imbalance.) Request your local power company to correct any voltage problem.

3. An easily accessible main power disconnect must be provided for all poles of the wiring to the freezer.

2.4 Electrical Connections



CAUTION
To prevent accidental electrical shock, a positive earth ground is required.

1. Double freezers with two compressors require one power supply for each side of the freezer. Each side of the freezer operates independently.

2. Check the data plate for fuse size, wire ampacity and electrical specifications.

3. Refer to the wiring diagram provided for proper power connections.

4. Electrical connections are made in the junction box located mid-level behind the left side panel.

5. Use a flexible connection when permissible.

6. For 3 phase freezers, beater shaft rotation must be clockwise as viewed from the front of the freezer.

3 Specifications

3.1 Particulars

Always check and verify voltage and amperage on the data plate located on the back panel of each freezer.

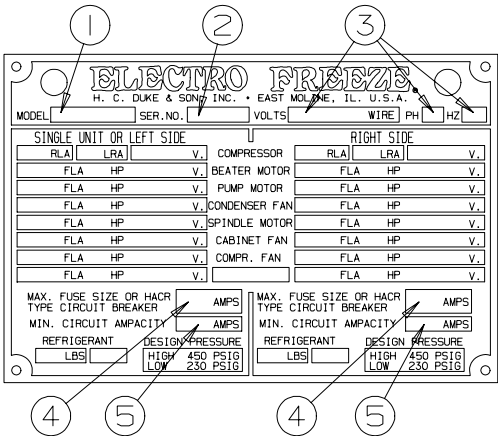
30T-RMT

Width (in/cm)	26/66
Height (in/cm)(water cooled)	67.5/171
Height (in/cm)(air cooled)	68/173
Depth (in/cm)	36.5/93
Weight (lbs/kg)	847/385
Compressor (2)*	2 HP/9500 BTUH 1.5 kw (Motor) 2.8 kw (Cooling)
Beater Motor	2 HP/1.5 kw
Refrigerant	404a
Charge**	3.75 lb/1.7 kg
Mix Container (2)	30 Qts/28.4 Liters
Cylinder (2)	4 Qts/3.8 Liters

*Contact factory for other voltages.

**for each side

3.2 Data Plate



The data plate provides important information that the operator should record and have available for parts ordering, warranty and service requests.

Figure 3-1

3.3 Reference Information

**Write in
Reference Informa-
tion HERE!**



Fill in this information as soon as you receive the Electro Freeze 30T-RMT soft serve twist freezer. The item numbers, encircled, correspond with the callout numbers in figure 3-1.

- ① Model Number: _____
- ② Serial Number: _____
- ③ Electrical Spec: Voltage _____
Phase _____ Hertz _____
- ④ Maximum Fuse Size: _____
- ⑤ Minimum Circuit Ampacity: _____

3.4 Installation Date

Fill in the date of installation, and the name, address, and phone number of the installer in the space provided below. This information will be needed when ordering parts or service for the 30T-RMT freezer.

Date of installation: _____

Installed by: _____

Address: _____

Phone: _____

3.5 Dimensions

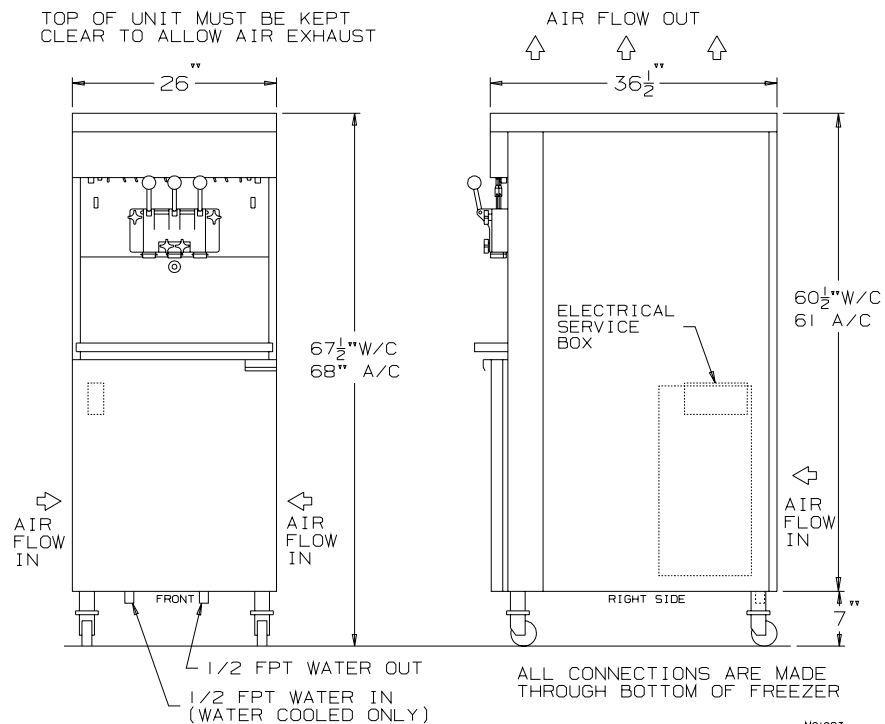


Figure 3-

4 Part Names and Functions

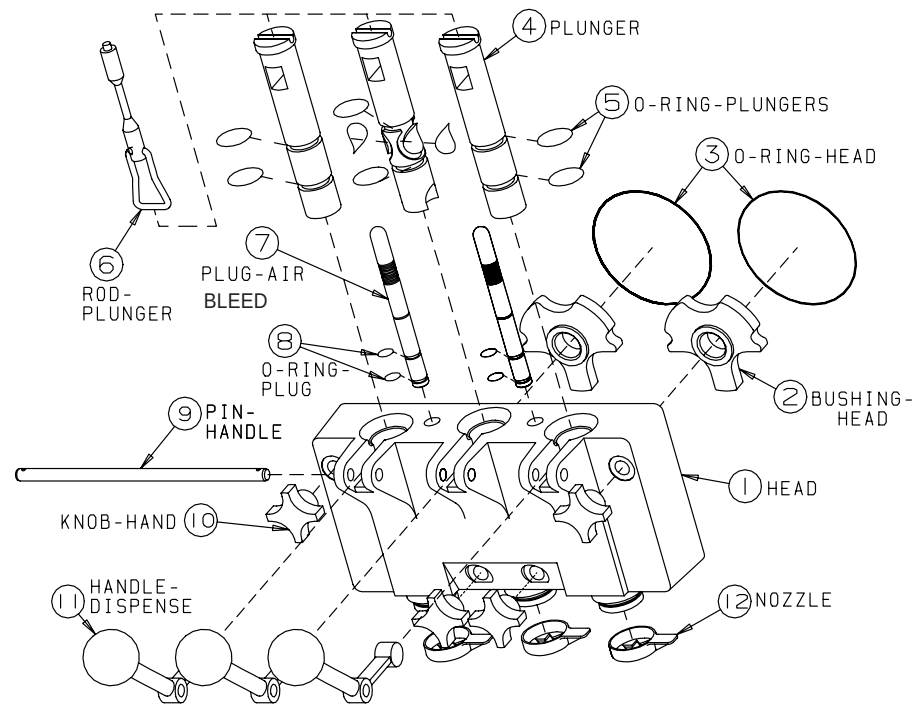


Figure 4-1 Head Assembly

- | | |
|---|--|
| <p>① HEAD
Encloses the freezing cylinder and provides an opening for product to be dispensed.</p> <p>② BUSHING - HEAD
Holds the beater in place at the front of the cylinder.</p> <p>③ O-RING - HEAD
Seals the head to the freezing cylinder. Must be lubricated.</p> <p>④ PLUNGER
Seals the product opening in the dispense head when closed. Allows product to flow when open.</p> <p>⑤ O-RING - PLUNGER
Seals the plunger in the head. Must be lubricated to seal and slide properly.</p> <p>⑥ ROD - PLUNGER
Starts the freezer when dispensing. Must be in place before freezer will operate.</p> | <p>⑦ PLUG - AIR BLEED
Seals the air bleed opening in the dispense head when closed. Allows excess air to be removed from the cylinder in the filling process.</p> <p>⑧ O-RING - PLUG
Seals the air bleed plug in the dispense head.</p> <p>⑨ PIN - HANDLE
Secures the handle to the dispense head.</p> <p>⑩ KNOB - HAND
Secures the dispense head to the freezing cylinder.</p> <p>⑪ HANDLE - DISPENSE
Opens and closes the plunger to start and stop the flow of product from the freezer.</p> <p>⑫ NOZZLE
Forms the frozen product as it is dispensed.</p> |
|---|--|

4 Part Names and Functions (continued)

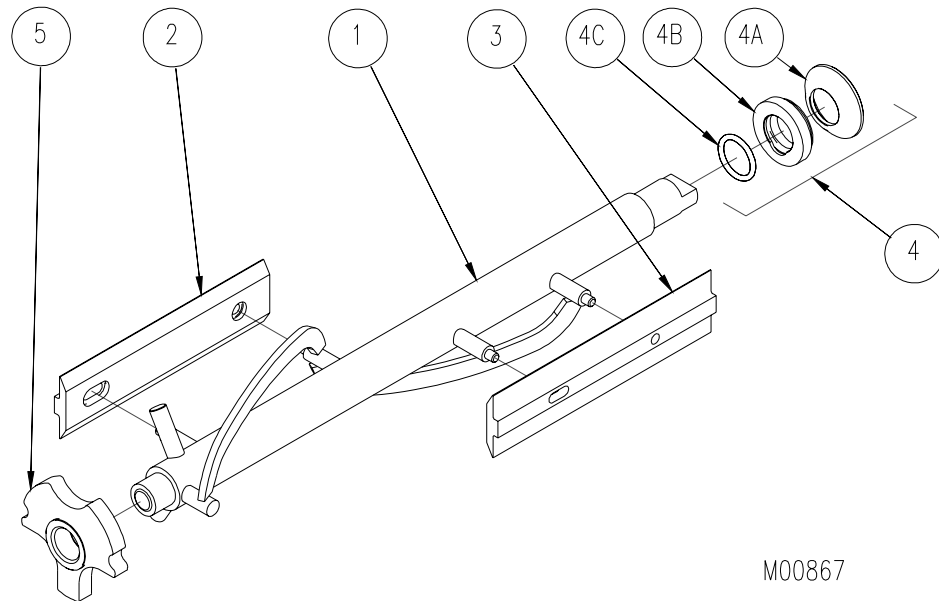
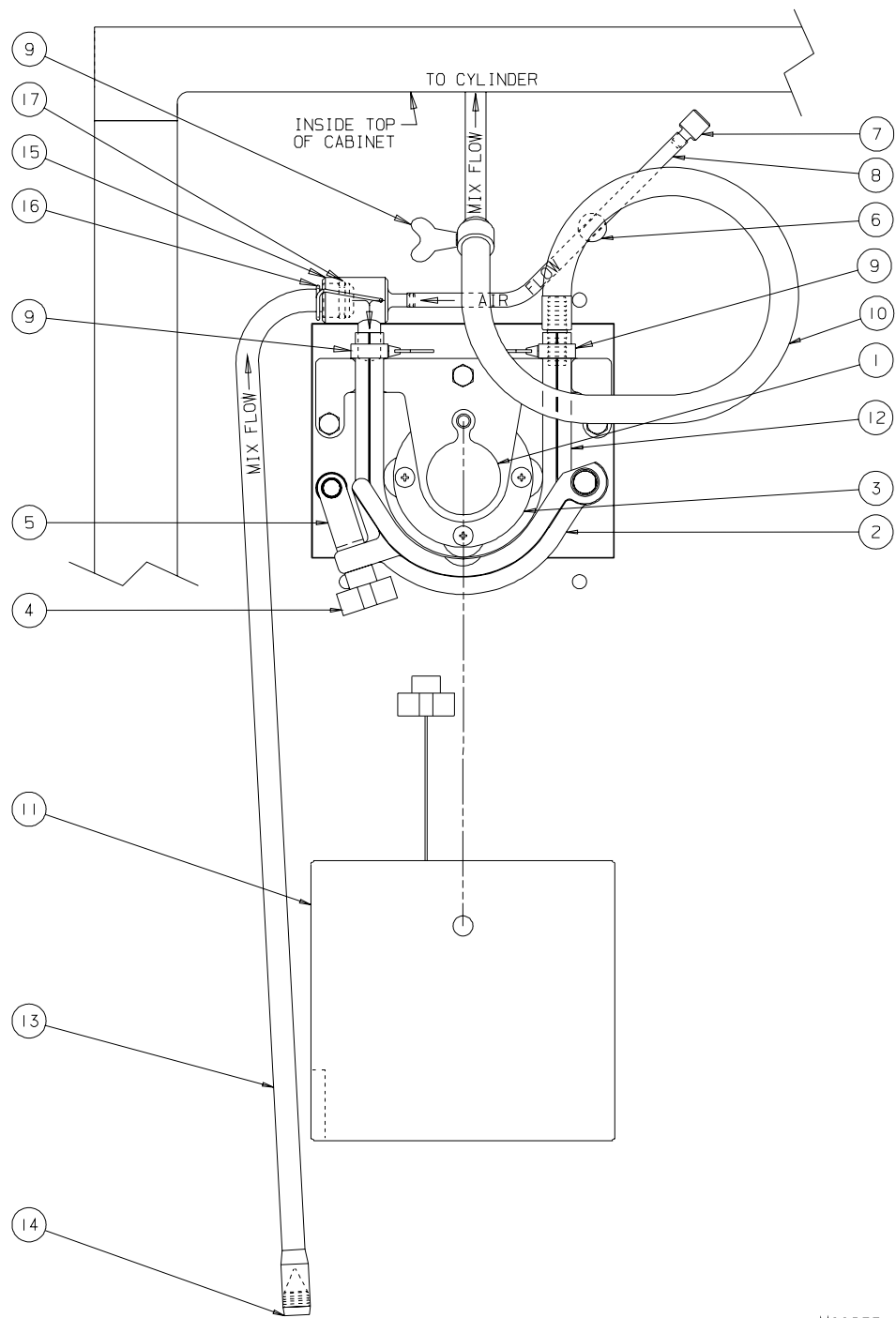


Figure 4-2 Beater Shaft Assembly

- | | |
|---|---|
| <p>1 SHAFT - BEATER
Rotates in the freezing cylinder, blending air and ejecting product.</p> <p>2 BLADE - SCRAPER FRONT
Scrapes the frozen product from the freezing cylinder.</p> <p>3 BLADE - SCRAPER REAR
Scrapes the frozen product from the freezing cylinder.</p> <p>4 SEAL - ASSY. SHAFT
Seals the opening between the freezing cylinder and the beater shaft. Consists of the following 4A, 4B, and 4C.</p> <p>4A SEAL - BEATER SHAFT (CUP SEAL)</p> <p>4B WASHER - SHAFT SEAL (BUSHING)</p> <p>4C O-RING - SEAL</p> | <p>5 BUSHING - DISPENSE HEAD
Holds the beater in place at the front of the cylinder.</p> |
|---|---|

4 Part Names and Functions (continued)



M00833

Figure 4-3 Mix Transfer System (MTS)

4 Part Names and Functions (continued)

- | | |
|---|--|
| <p>① SUPPORT-ROLLER BEARING
Holds roller assembly in place.</p> <p>② SHOE-ROLLER
Provides an opening to insert the mix transfer hose. Squeezes transfer hose against rollers.</p> <p>③ ROLLER ASSEMBLY COMPLETE
Squeezes mix/air through tubing to freezing cylinder.</p> <p>④ KNOB-HAND
Locks roller shoe in position.</p> <p>⑤ CLAMP-SHOE
Swings hand knob into position over roller shoe.</p> <p>⑥ RETAINER-AIR TUBE
Holds air meter tube in the "up" position.</p> <p>⑦ AIR METER
Regulates the amount of air being drawn into the system.</p> <p>⑧ TUBE-AIR
Provides connection for the air meter.</p> <p>⑨ CLAMP-ASSY. SOFT HOSE 5/8"
Prevents mating parts from leaking.</p> <p>⑩ HOSE-ASSY. MIX BRAIDED
Connecting tube between the Mix Transfer System and the cylinder inlet.</p> | <p>⑪ COVER-MTS
Protection against moving parts. Cover must be in place for the MTS to operate.</p> <p>⑫ HOSE-TRANSFER RED
Special "red-lined" hose that is squeezed by rollers to transfer mix to freezer.</p> <p>⑬ TUBE-ASSEMBLY MIX INLET
Carries mix from mix container to MTS.</p> <p>⑭ DUCKBILL
A rubber check valve that prevents mix from falling back into the mix container.</p> <p>⑮ PORT-AIR/MIX
Blends air and mix as it flows into the transfer hose.</p> <p>⑯ CLIP-TUBE RETAINER
Locks mix pickup tube into air/mix port.</p> <p>⑰ O-RING
Seals the mix tube in the air/mix port.</p> |
|---|--|

5 Operator Controls and Indicators

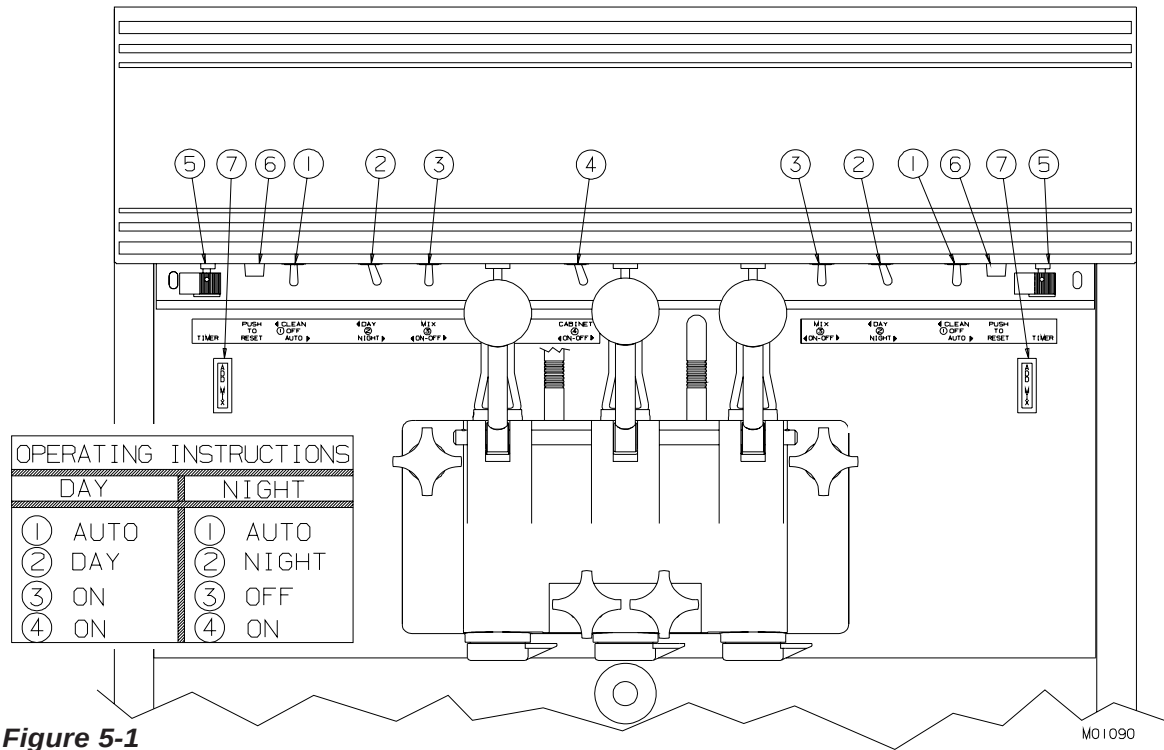


Figure 5-1

The following paragraphs describe the operator controls and indicators. Refer to figure 5-1 for location of these controls and indicators on the freezer.

NOTE: The head must be in place before the beater will operate.



CAUTION
Test operation of the head switch prior to placing the freezer in service. See Section 11, Routine Maintenance, Monthly.

5.1 Selector Switch ①

This three-position switch controls the operating mode of your freezer.

a. **“CLEAN”** (left) — This position operates the beater only (no refrigeration to the cylinder). Always use this mode when performing cleaning and sanitizing operations.

b. **“OFF”** (center) — In this position the beater motor will not operate and no refrigeration will be provided to the cylinder.

Important:
Do not use the “AUTO” position with water or sanitizer in the cylinder — the freezer will be damaged.

c. **“AUTO”** (right) — This position activates both the beater motor and the refrigeration unit. This is the normal operating position.

5 Operator Controls and Indicators (continued)

5.2 DAY-NIGHT Switch ②

This two-position switch controls the day and night refrigeration modes.

a. **“DAY”** (left) — The low temperature thermostat controls the system refrigeration to maintain the product serving temperature between 18 to 21°F (-8 to -6°C). This is the normal operating position.

b. **“NIGHT”** (right) — The medium-temperature thermostat controls the system refrigeration to maintain a mix holding temperature of 40°F (4°C) or below.

5.3 Mix Transfer System (MTS) Switch ③

This two-position switch controls the operation of the MTS located in the refrigerated mix storage cabinet.

a. **“ON”** (left) — This position is the normal operating mode. Use this position for priming the cylinder, cleaning and day mode operation.

b. **“OFF”** (right) — In this position the MTS will not operate. Use this position for night mode operation.

5.4 Cabinet Switch ④

This two-position switch controls the cabinet refrigeration.

NOTE: Cabinet door must be closed for cabinet refrigeration to operate.

a. **“ON”** (left) — The cabinet thermostat controls the system refrigeration to maintain a temperature of 36 to 41°F (2 to 5°C) in the storage cabinet. Use this position when mix is in the storage cabinet but not in the cylinder.

b. **“OFF”** (right) — The cabinet will not be refrigerated.

NOTE: The cabinet is automatically “ON” when either SELECTOR switch is in the “AUTO” position.

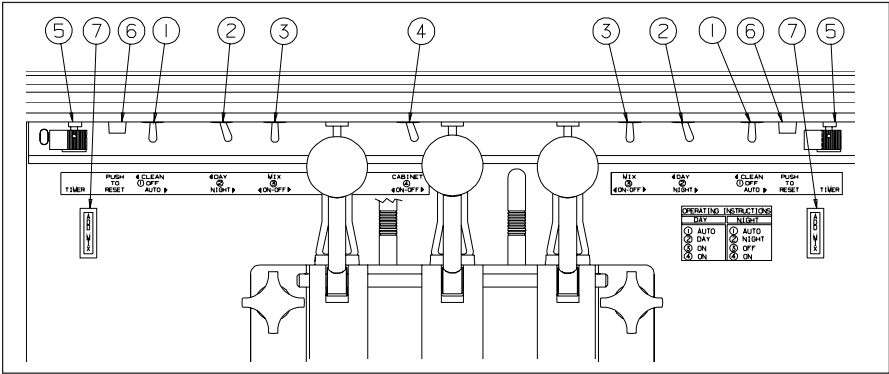
5.5 Timer ⑤

This control will bypass the thermostat, forcing the compressor and beater motor to run up to 3 minutes. Use the timer for quick start-ups or fast recovery when dispensing large portions.

Important:
Excessive use of the timer causes freeze-up and damage to the freezer.

5 Operator Controls and Indicators (continued)

Figure 5-1



5.6 Reset — Overload ⑥

This control protects the beater motor against failure from an overload condition by automatically shutting down the freezer. To restart the freezer properly, turn the SELECTOR switch to “OFF” and wait 2-3 minutes. Then depress the red reset button and turn the SELECTOR switch back to the “AUTO” or “CLEAN” position.

Important:
If the overload trips frequently, your freezer should be checked for proper product temperature, overrun and voltage. Contact your Electro Freeze Distributor.

5.7 Indicator Light — “ADD MIX” ⑦

When flashing, this light indicates the mix in the mix container is at a low level and should be refilled as soon as possible. Always maintain at least 2 inches (5 cm) of mix in the container. For best operating results keep container full.

Important:
If proper mix level is not maintained, a freeze-up may occur and cause damage to the freezer.

5.8 Probe — “ADD MIX” ⑧ (not shown)

For the “ADD MIX” indicator lights to work, the probes must be installed in the mix container, with cords attached and plugged into the receptacles located in the back of the cabinet.

OPERATING INSTRUCTIONS			
DAY		NIGHT	
①	AUTO	①	AUTO
②	DAY	②	NIGHT
③	ON	③	OFF
④	ON	④	ON

This chart shows the correct positions of the switches for day and night operations.

To turn the entire machine off, switches numbered 1, 3, and 4 must be in the “OFF” position.

6

Disassembly and Cleaning

Safety Information

This freezer uses pressure to assure consistent product quality. It is important for your safety that the freezer is depressurized slowly and completely whenever the freezer is to be drained, disassembled, cleaned, or serviced. The safety instructions in this manual will remind you when to check to make sure the freezer is depressurized. When you see this CAUTION statement


CAUTION

Make sure freezer is depressurized before proceeding.

the following steps should be taken:

1. Make sure both MTS switches and both selector switches are in the "OFF" position.
2. Place a clean bucket under the dispense head.
3. ***Slowly*** open the plungers by pulling down on each of the dispense handles, allowing any pressurized cleaning solution or air to escape. If there is product in the freezer refer to Section 9, Closing Procedures, 9.2 Draining Product.
4. Remove the plunger rods and open the plungers completely.


CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

5. Inside the refrigerated cabinet, remove the MTS cover, loosen the shoe clamp hand knob, swing back the shoe

It is important that the freezer be disassembled, washed, lubricated and sanitized before operation.

The cleaning and sanitizing instructions explained in this manual are required to maintain a clean, sanitary freezer. The freezer should be disassembled, cleaned, reassembled, lubricated and sanitized daily to ensure the best possible product quality and freezer operation.

Persons assembling, cleaning or sanitizing the freezer must first wash and sanitize hands and forearms with an approved sanitizer.

6.1 Cleaning Accessories

The following accessories shipped with the freezer are necessary for cleaning, sanitizing, and disassembly/assembly:

1. Bottle, Wash: used to flush the hose cavity, roller assembly and plunger.

2. Brush, Cylinder: used to clean the cylinder.

3. Brush, 7/16 inch diameter with an overall length of 12 inches: used to transfer hose, air meter hose, and air relief opening in the dispense head.

4. Brush, 9/16 inch diameter with and overall length of 30 inches: used to clean drain tube, mix feed tube in the ceiling of the cabinet, and the pickup tube.

5. Brush, 1 inch diameter 12 inches long: used to clean plunger openings in the dispense head, head bushing and serrated nozzle. Also used to clean disassembled shaft seal.
6. Kit, O-ring: contains all O-rings and seals needing replacement on a regular basis.

7. Lubricant, Petrol Gel: approved lubricant for moving parts and O-rings.

8. Sanitizer, Sample: approved sanitizer, Stera-Sheen, also available in 4 lb. jar.

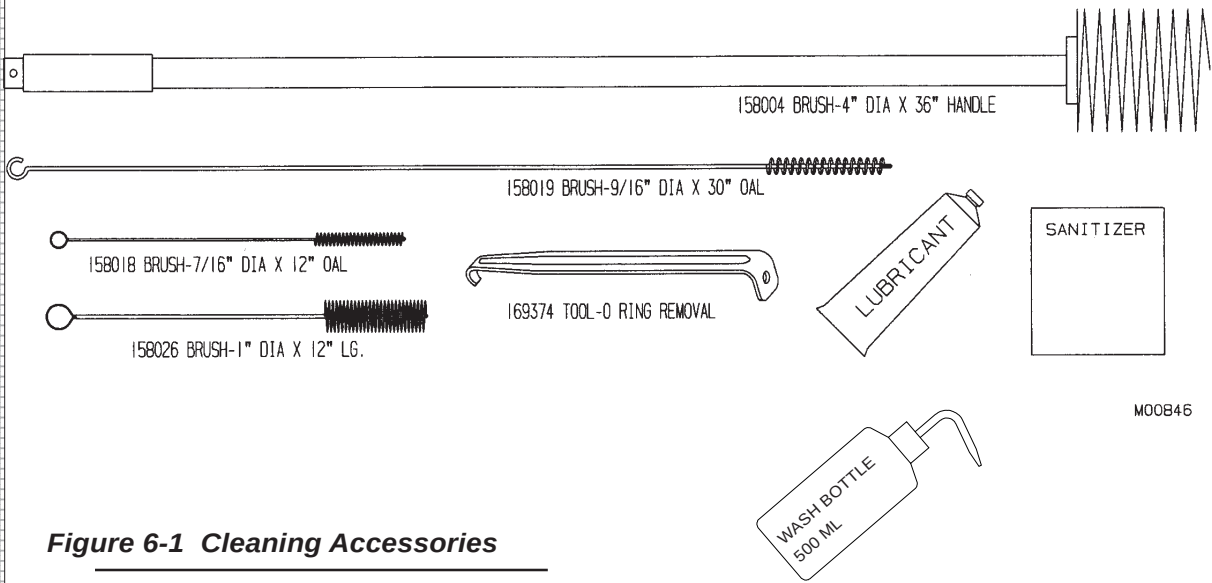


Figure 6-1 Cleaning Accessories

6.2 Disassembly Instructions

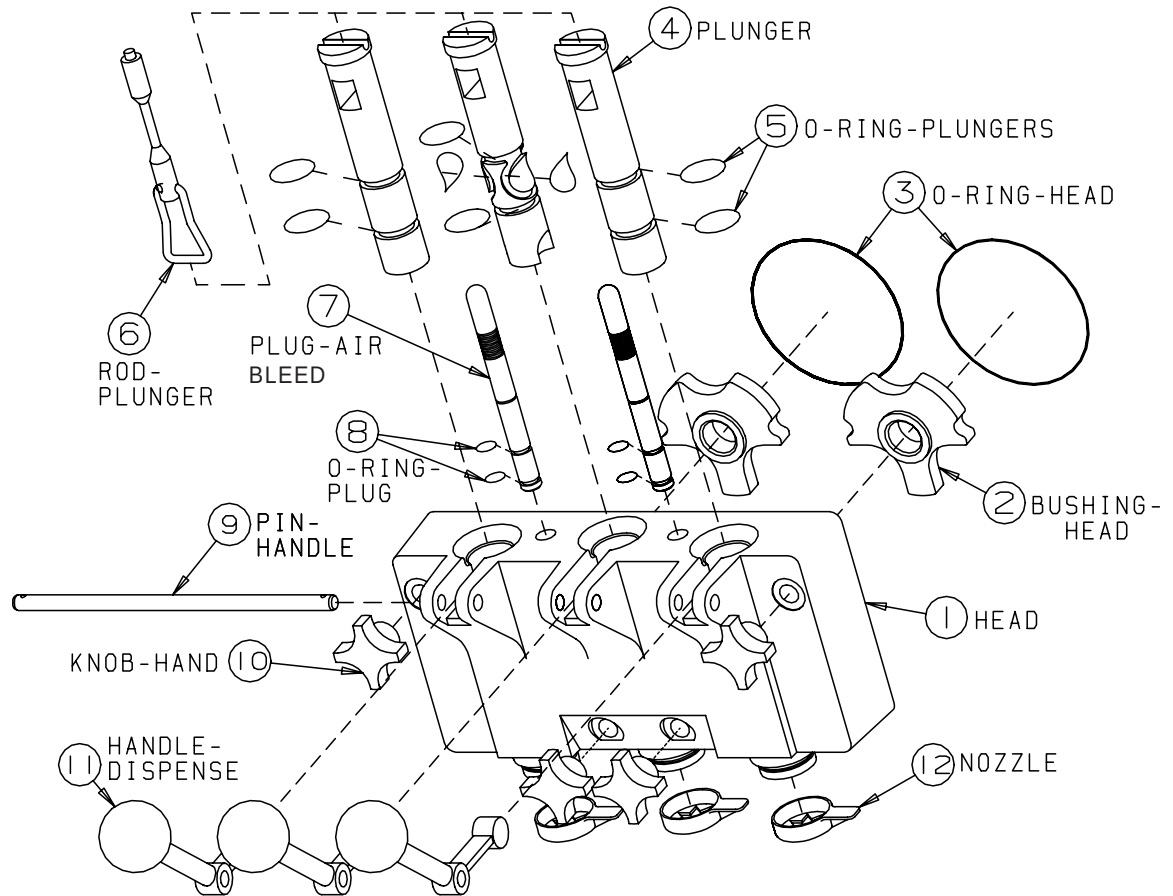


Figure 6-2 Head Assembly



CAUTION
To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.



CAUTION
Make sure freezer is depressurized before proceeding.



CAUTION
To prevent bacteria growth, remove ALL O-rings when disassembling for cleaning. Failure to do so could create a health hazard.

1. If there is product in the freezer, refer to Section 9, Closing Procedures, 9.2 Draining Product.

2. Remove the plunger rods (6, figure 6-2) by lifting up and swinging the bottom out and down. Remove hand knobs (10) and pull the dispensing head (1) straight out.

3. Remove the head bushings and beater shafts from the cylinders.

4. Remove scraper blades and shaft seals from the beater shafts.

5. Remove the drip tray (see Replacement Parts Manual, figure 9 - Panel Assembly) and drip tray insert from the front of the freezer.

6. Remove the air bleed plugs (7, figure 6-2) and remove the two O-rings (8) on each plug.

6.2 Disassembly Instructions (continued)

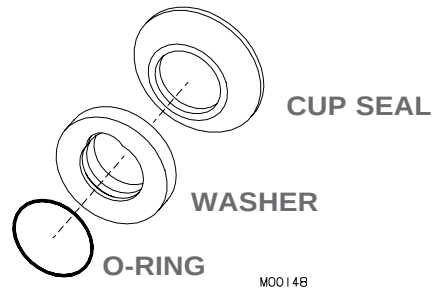


Figure 6-3 Shaft Seal

7. Remove the handle pin (9), handles (11), plungers (4) and nozzles (12) from the dispense head.

8. Remove O-rings (3) from the dispense head and O-rings (5) from the plungers (4).

9. Remove the cup seals (figure 6-3) and O-rings from the plastic washers on the shaft seal assemblies.

10. Remove mix containers, covers and low mix probes.

11. Remove MTS cover.

12. Remove MTS hose assemblies from the Mix Transfer Systems as follows (figure 6-4):

- loosen the hand knob,
- swing back the shoe clamp,
- swing open the roller shoe,
- loosen the clamp on braided hose,
- pull tube off cylinder inlet and slide hose assembly out of roller support housing.

13. Disassembly MTS hose assemblies as shown in figure 6-5.

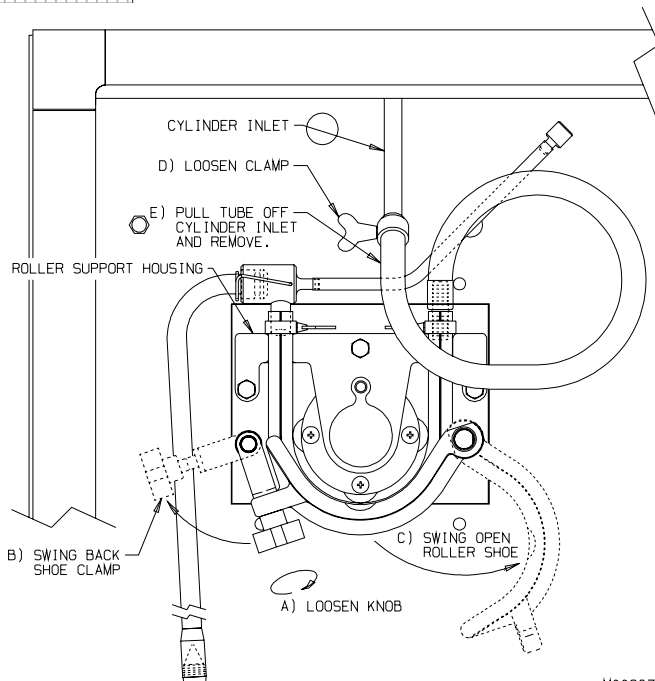


Figure 6-4 MTS

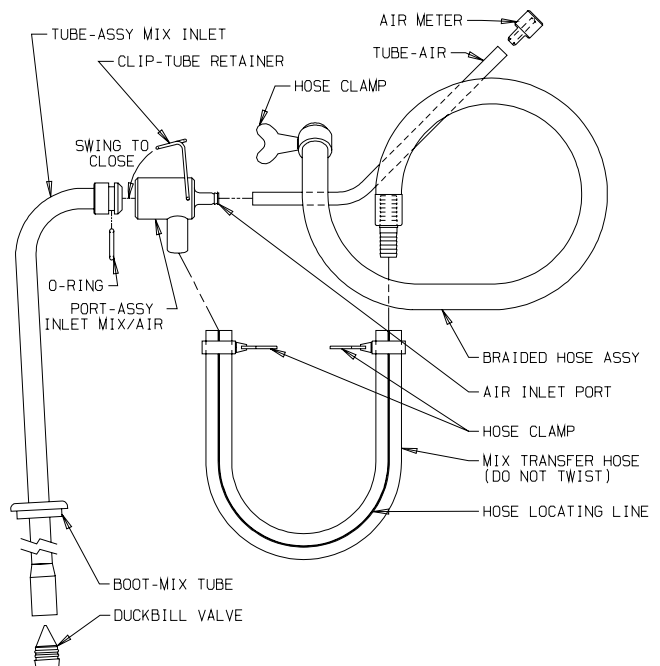


Figure 6-5 MTS Hose Assembly

6.3 Cleaning Instructions



CAUTION

To prevent bacteria growth, remove all O-rings when cleaning. Failure to do so could create a health hazard.



CAUTION

Electrical shock hazard. Do not splash water on switches or allow water to flow onto electrical components inside the machine.

NOTE: It is your responsibility to be aware of, and conform to, the requirements for meeting all federal, state, and local laws concerning the frequency of cleaning and sanitizing the freezer.

1. Prepare a three-compartment sink for cleaning, rinsing, and sanitizing parts removed from the freezer, per applicable local health codes. Also prepare a clean surface to air-dry all parts.

⇒ **Important:**

Do not use unapproved sanitizer or laundry bleach. These materials may contain high concentrations of chlorine and will chemically attack freezer components.

NOTE: The sanitizer should be mixed according to the manufacturer's instructions to yield 100PPM available chlorine solution (example: Stera-Sheen Green Label.) Use warm water (100° to 110°F or 38° to 43°C) to wash, rinse, and sanitize.

2. Wash all parts removed from the freezer thoroughly with dish detergent. Clean the following parts with the appropriate supplied brush:

- The mix tank, pickup tube assemblies, hoses, and probes.
- The head plunger openings, center plunger ports, O-ring grooves, dispense nozzle mounting rings, and mix ports, as shown in figure 6-6.

— continued

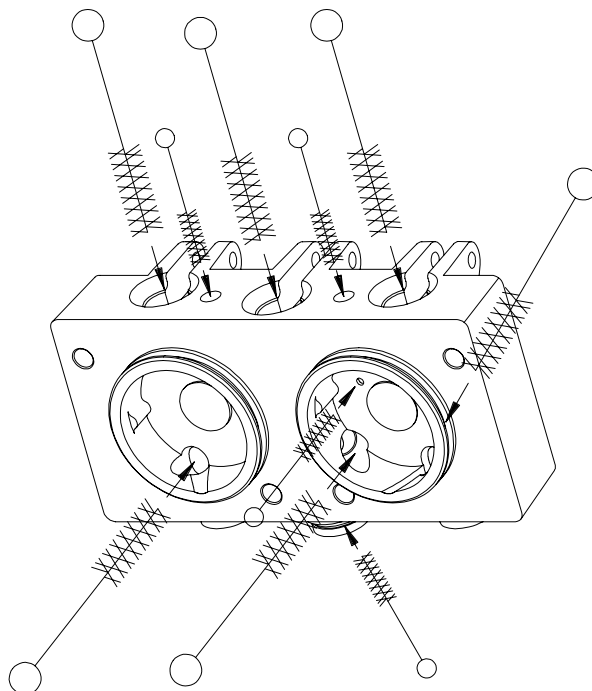


Figure 6-6 Clean head ports and openings with brush.

6.3 Cleaning Instructions (continued)

c. The shaft cup seals, washers, and O-rings, plunger O-ring grooves and nozzles, as shown in figure 6-7.

d. The air bleed plug O-ring grooves.

e. The beater shaft and the scraper blade pin holes as shown in figure 6-8.

⇒ **Important:**

Do not leave parts in sanitizer for more than 15 minutes.

3. After all parts are washed, rinse and then place them in the sanitizer solution. Brush the inside of all mix transfer hoses with sanitizer. For proper sanitizing, the parts must remain fully immersed in the sanitizer for 5 minutes. Allow parts to air-dry after sanitizing.

4. Using a warm dish detergent solution thoroughly brush; the mix feed tubes from the refrigerated cabinet to the cylinders as shown in figure 6-9, the inside of the cylinders including the back wall, and the inside of the drain tube, as shown in figure 6-10.

5. Remove the drip tray and insert. Wash in a warm dish detergent solution and rinse with clear water.

6. Wash the outside of the freezer and inside of the cabinet with a warm dish detergent solution. Rinse with clear water.

Replace worn brushes.
Use only Electro Freeze
original or authorized
replacement parts. See
Accessories parts list in
Part II of this Manual to
order new brushes.

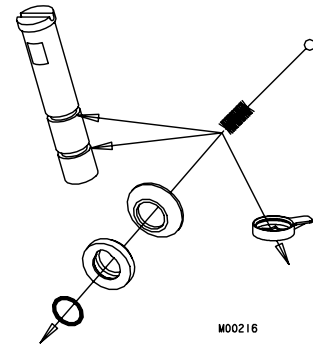


Figure 6-7 Clean O-ring grooves, seal and nozzle with brush.

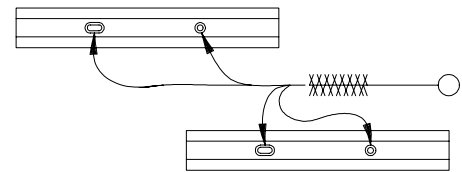


Figure 6-8 Clean beater shaft pin holes.

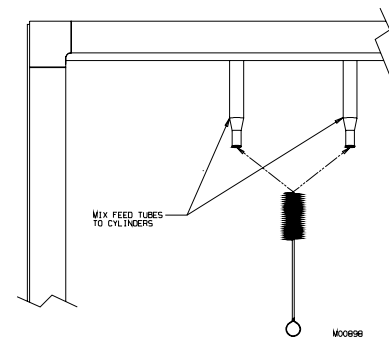


Figure 6-9 Brush inside of cylinder mix feed tubes.

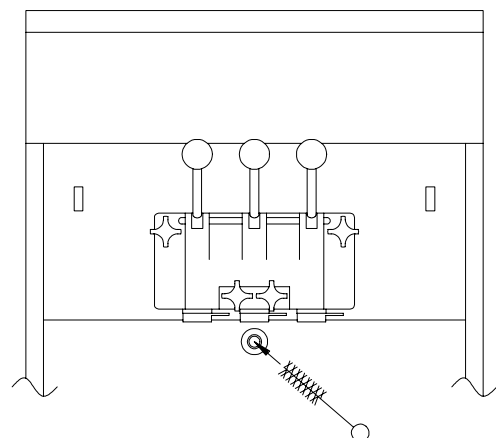


Figure 6-10 Brush inside of drain tube

6.3.1 Cleaning Shoe

NOTE: Clean the shoe weekly or when necessary. **Do not interchange the shoe with any other MTS shoes.**

1. Remove the O-rings and slide the shoe off of the pivot arm and the swing clamp off of the clamp arm. See figure 6-11.

2. Carry to the sink, wash in mild detergent with the brush provided and dry thoroughly.

3. Brush in between rollers. Flush clean with water bottle.

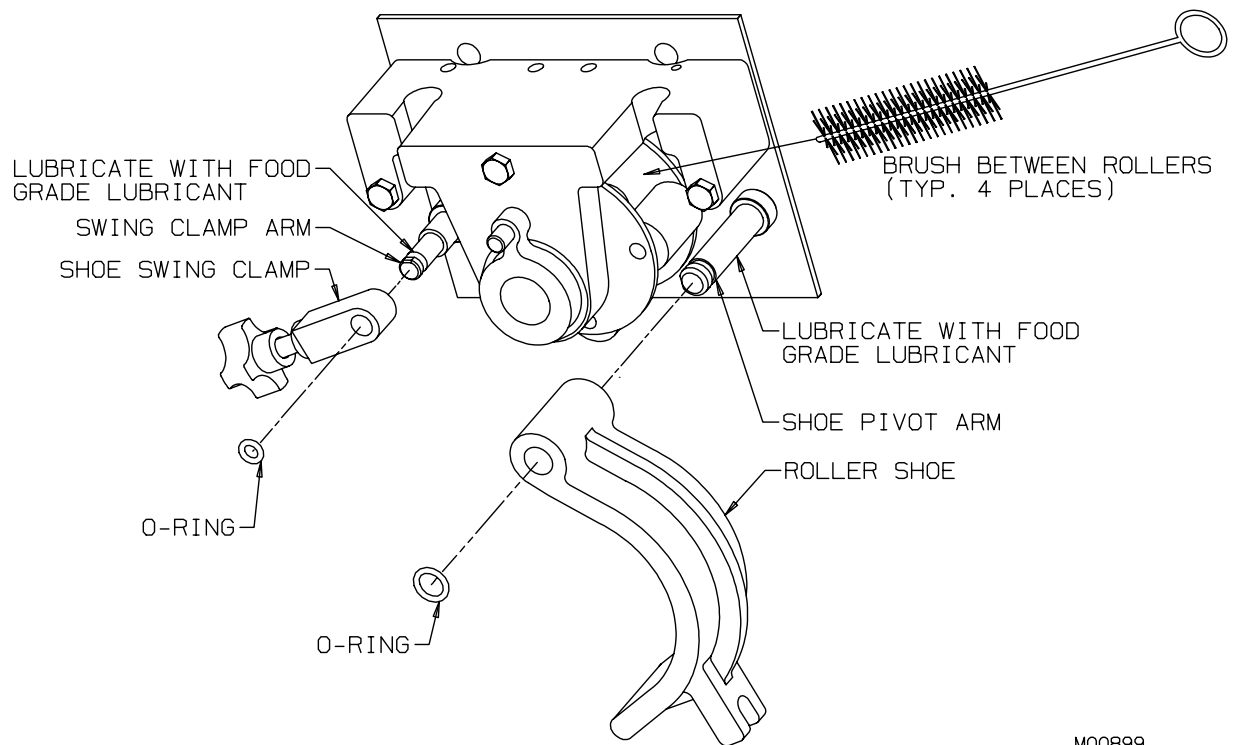
⇒ **Important:**

Do not let shoe sit in sanitizing solution or water. Corrosion will occur in bore.

4. Lubricate the shoe pivot arm and the swing clamp arm with food grade lubricant such as Petrol-Gel.

5. Reassemble the shoe and O-ring on pivot arm.

6. Reassemble the shoe swing clamp and O-ring on the swing clamp arm.



M00899

Figure 6-11

7

Assembly

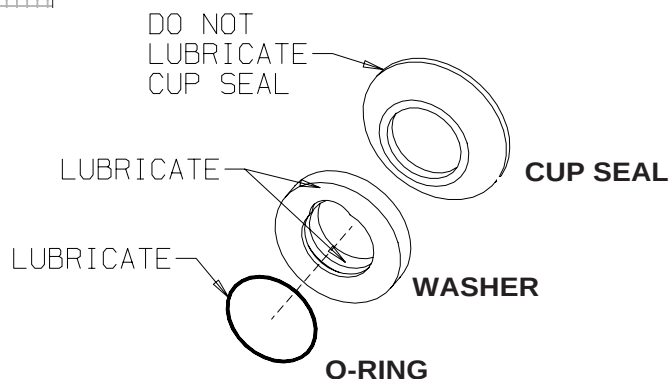


Figure 7-1 Shaft Seal Assembly

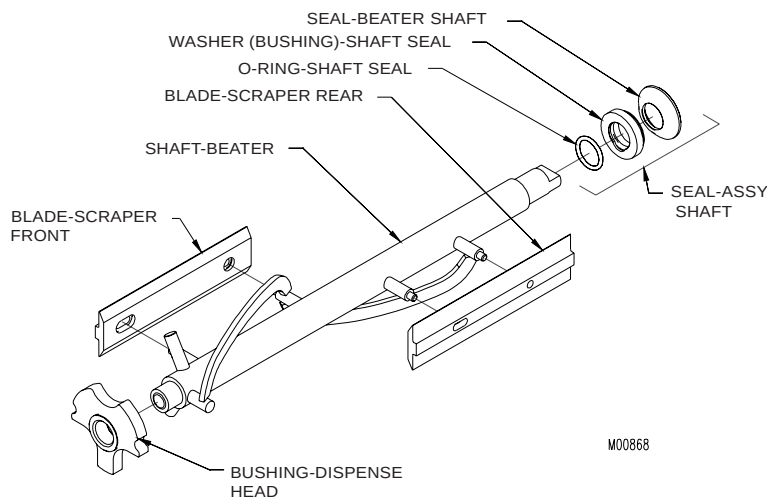


Figure 7-2 Beater Shaft Assembly

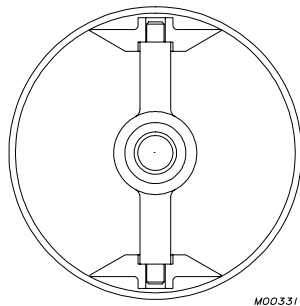


Figure 7-3 Scraper Blade Installation

Correct assembly of the freezer is essential to prevent leakage of the product and damage to the freezer. To assemble the freezer you will need an approved lubricant (such as Petrol-Gel). Make sure all parts of the assemblies have been washed and sanitized before assembling. Persons assembling the freezer must first wash and sanitize their hands and forearms with an approved sanitizer. Follow these directions for each cylinder of the freezer.

CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.



1. To assemble the shaft seal, install the cup seal and O-ring on the plastic washer (see figure 7-1). Apply a light amount of approved sanitary lubricant (such as Petrol-Gel) to the O-ring and the face of the plastic washer opposite the bell portion of the seal. Do not allow any lubricant to come into contact with the bell-shaped rubber portion of the seals.

2. Install the shaft seal over the rear of the beater shaft, with the bell-shaped portion facing the rear as shown in figure 7-2.

3. Place the scraper blades on the beater shaft, making sure the blades are installed properly (see figure 7-3).

4. Install the assembled beater shaft into the cylinder by placing the rear blade on the bottom of the cylinder. This will center the beater and allow alignment with the drive coupling. Rotate the beater assembly while pushing, until the shank has engaged the coupling. Repeat for second cylinder assembly.

7 Assembly (continued)

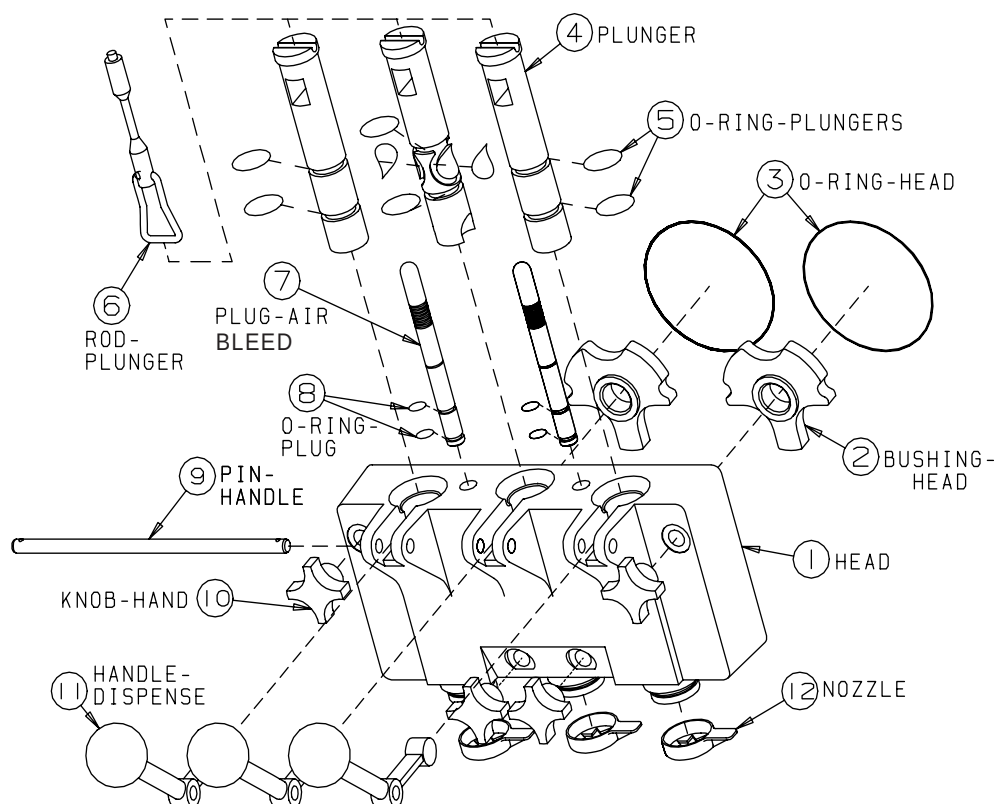


Figure 7-4 Dispense Head Assembly

5. (Refer to figure 7-4.) Install and then lubricate the O-rings on the dispensing plungers and insert all three halfway into the head.

6. Install and then lubricate the 4-inch head O-rings.

7. Position the handle(s) in the head and ensure that the longest handle is in the center plunger. Lock in place with the handle pin.

8. Install and lubricate O-rings on the air bleed plugs. Insert plugs in the head assembly.

9. Lubricate the inside surface of the head bushing and place in the dispense head assembly by rotating until the bushing locks in place.

⇒ **Important:**

ALWAYS make sure the head bushing is positioned in the head properly. Operating the freezer with a missing or badly worn bushing will damage the beater and cylinder.

⇒ **Important:**

Excessive force will damage the head. Do not use tools to tighten.

10. Install the dispensing head onto the freezer by aligning the studs with the holes in the head and sliding toward the freezer. Tighten the hand knobs evenly, finger-tight only.

11. Install the plunger rods. The nozzles will be installed on the mix outlet at the bottom of the dispense head after sanitizing.

7 Assembly (continued)

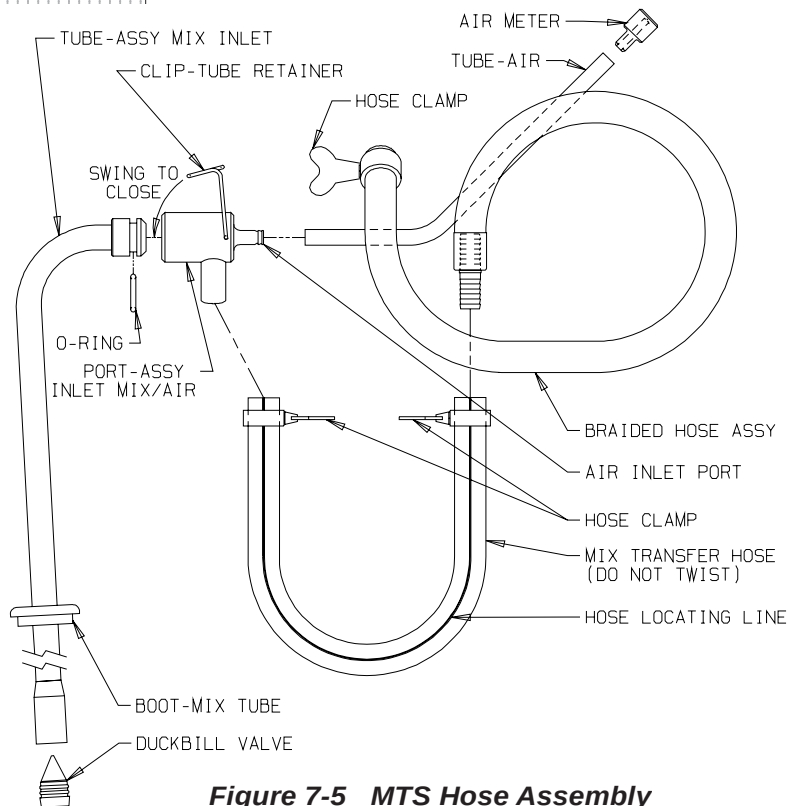


Figure 7-5 MTS Hose Assembly

M00836

⇒ **Important:**

Always inspect the transfer hose during assembly for wear. Do not use tools or sharp objects to remove hose.

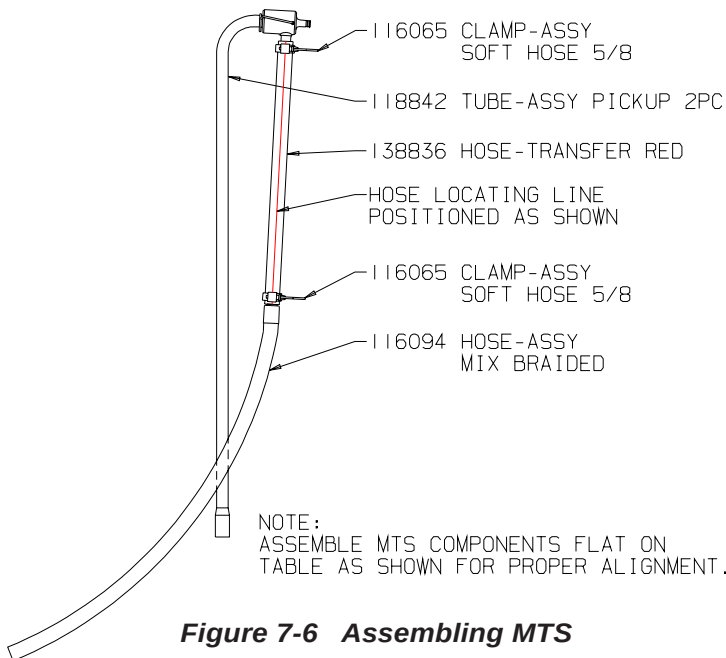


Figure 7-6 Assembling MTS

⇒ **Important:**

Use original Electro Freeze transfer hose only. Your freezer will not operate properly with any other type of hose. Never twist the transfer hose when assembling or installing.

⇒ **Important:**

Replace transfer hose every 30 days.

12. Assemble the MTS hose assembly as shown in figures 7-5 and 7-6. The transfer hose has a red locating line. Hold the mix/air inlet port with the transfer hose mix port on your right and the barbed air port facing away from you. With the locating line up, slide the mix transfer hose onto the port. Then slide a clamp over the hose to secure it to the port. Finger tighten only! The thumbscrew must lie parallel to the mix/air inlet port.

13. Slide another clamp over the mix transfer hose and connect to the barbed end of the braided hose. Tighten the clamp. Finger tighten only! The thumb screw must lay horizontal as shown in figure 7-6.

14. Slide the air tube over the air inlet port and insert air meter in the opposite end of the air tube.

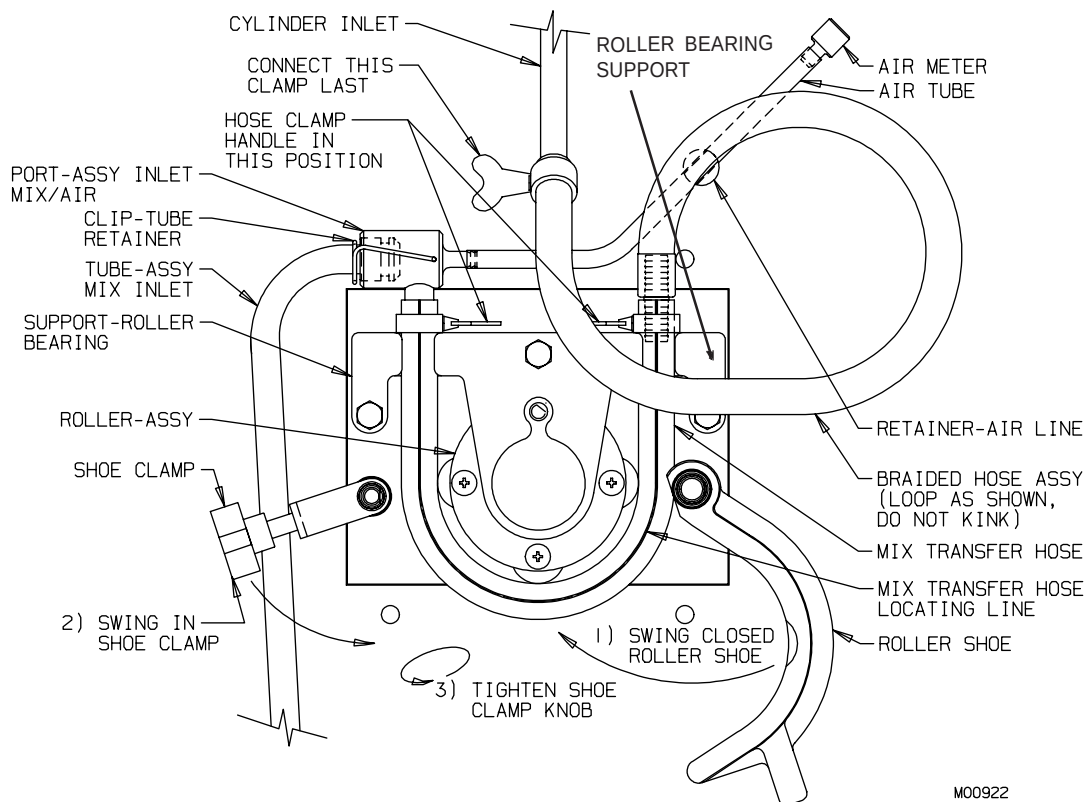
15. Install o-ring on mix inlet tube assembly and lubricate. Place the tube assembly end into the port assembly and swing retainer clip over to lock tube assembly in place.

16. Install mix tube boot with flat side first, over the tube assembly.

17. Insert the duckbill valve into the bottom of the pickup tube. Push until the two ribs are completely inserted.

—continued

7 Assembly (continued)



M00922

Figure 7-7 MTS

18. Refer to figure 7-7. Install the MTS hose assembly by first placing the clamp next to the braided hose, above the roller bearing support on the right side and push hose into slot. Place the transfer hose under the rollers. While holding the pickup tube stretch the hose so the left hand clamp is above the roller bearing support and push the hose into the slot.

⇒ **Important:**

Do not twist the hose assembly while installing.

19. Check to ensure the transfer hose is straight and centered on the roller assembly making sure the locating line is facing out. The line should be in the same position at the inlet and outlet guides of the roller bearing support, as shown in figure 7-7.

20. Swing the shoe over hose and tighten the swing clamp hand knob in place until it bottoms out and will not turn any further.

21. Insert the air tube into the retainer in the back of the cabinet.

22. Insert the MTS cover over stud. Hose clamps should be exposed. Tighten cover knob. Hand tighten only.

⇒ **Important:**

The MTS will not operate unless the cover is installed and secured by the hand knob.

23. Loop the braided hose towards you and slide the hose over the cylinder inlet tube. Tighten the clamp. Make sure the braided hose is not twisting transfer hose.

—continued

7 Assembly (continued)

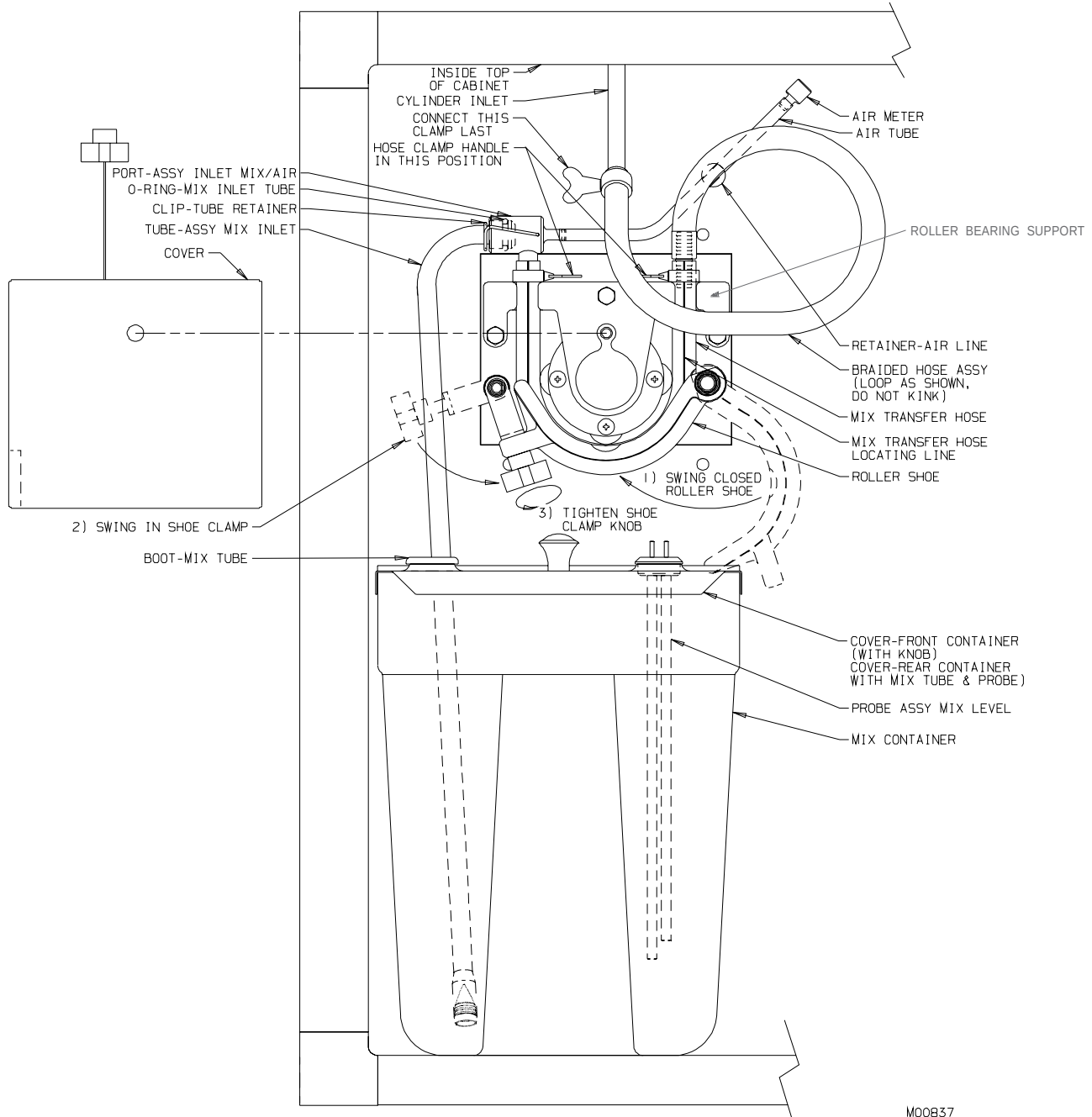


Figure 7-8 MTS

8 Start-up Instructions



CAUTION

Mix Transfer System will be pressurized during operation. Make sure all components and fasteners are secure before start-up.

8.1 Sanitizing Instructions

The washing and sanitizing instructions explained in this manual are important procedures to remove bacteria and maintain a clean, sanitary freezer. The soft serve freezer must be disassembled and washed according to the instructions in the manual. Always sanitize before start-up to ensure the best possible cleanliness.



CAUTION

To prevent bacteria growth, use only approved sanitizers to sanitize the machine. Sanitizing must be done just prior to starting the machine. Failure to do so could create a health hazard.

⇒ **Important:**

Do not use unapproved sanitizers or laundry bleach. These materials may contain high concentrations of chlorine and will chemically attack freezer components.

Note: It is your responsibility to be aware of, and conform to, the requirements for meeting all local, state, and federal laws concerning the frequency of cleaning and sanitizing the freezer.

1. Prepare 2 gallons (7.5 liters) of sanitizing solution in each mix tank. Sanitizing solution must be mixed according to manufacturer's instructions to yield 100 PPM available chlorine solution (example: Stera-Sheen Green Label). Use warm water (100 to 110°F or 37 to 43°C) to wash, rinse, and sanitize.

2. Wash and sanitize your hands and forearms.

3. Clean the interior mix tank walls, the underside of the tank covers, and low mix probes (see figure 8-1 probe assembly only) with sanitizer solution and the appropriate brush provided.

4. Place the mix tanks with sanitizer in the refrigerated cabinet.

⇒ **Important:**

Never let the sanitizer remain in the freezer for longer than 15 minutes.

5. Insert the tube assemblies into the sanitizer solution and sanitize the outside portion. If plastic mix bag systems are used, be sure all adaptors and items that will come into contact with mix are sanitized.

6. Place an empty container under the dispensing head.

7. Open the air bleed plugs by pulling up until the plugs touch the bottom of the switch box.

8. Reconnect the main power supply to the freezer. Turn the MTS switches to "ON". This will push the sanitizer up into the cylinders.

9. When sanitizer flows out the bottom of the dispense head, close the air bleed plugs.

⇒ **Important:**

DO NOT use the "AUTO" position with sanitizer in the cylinder. The freezer will be damaged.

—continued

8.1 Sanitizing Instructions (continued)

10. Turn both SELECTOR switches to "CLEAN" and allow the beaters to run for 5 minutes. Check for leaks around the head, drain tube, clamps and MTS during this 5 minutes.

11. Drain the solution from the cylinders by slowly pulling down on the dispense handles.

NOTE: Some sanitizer will remain in hoses and cylinders.

12. Leave the handles down, and turn the SELECTOR Switches to "OFF". Let the MTS force all possible sanitizer out of the freezing cylinders.

13. Turn the MTS switches to "OFF".

14. Remove the pickup tubes, holding the top 6-inch portion only.

15. Remove the mix tanks and empty any remaining sanitizer.

8.2 Priming

Priming the freezer removes all excess air and sanitizer from the freezing cylinder and sets the proper overrun for the first cylinder of product.

1. Holding the top 6-inch portion only, insert the pickup tubes into the sanitized mix tank through the small hole in the rear cover and set tanks in the cabinet.

2. Fill the mix tanks with mix and install the front covers.

3. Insert the sanitized mix probes through the large hole in the rear cover, and connect the probe cords to the probes and to the back of the cabinet.

4. Turn the cabinet switch to "ON" and close the cabinet door.

5. Place an empty container under the dispensing head on the drip tray.

6. Open the plungers and air bleed plugs.

7. Turn the MTS switches to "ON" and allow the mix to push the remaining sanitizer from the freezer.

8. Close the plungers when pure mix is being expelled.

⇒ **Important:**

Failure to completely remove sanitizer or water from the freezing cylinder before placing in "AUTO" will cause the scraper blades to break and damage the freezer.

9. When pure mix is coming out of the air bleed plug openings in the bottom of the head, close the air bleed plugs. Wait for the MTS to fill the cylinders and shut off.

10. After the cylinders are pressurized and the MTS has cycled off (approximately 30 seconds) turn both DAY/ NIGHT switches to "DAY" and both SELECTOR switches to "AUTO."

11. Allow the freezer to cycle for 15 minutes. Sanitize the nozzles and install on the head. The product is now ready to serve.

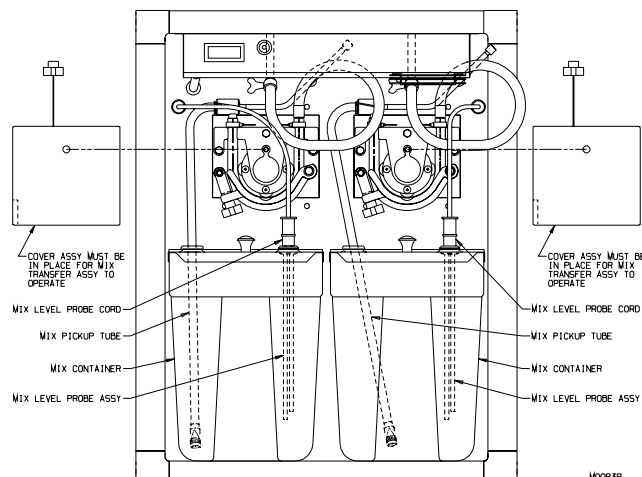


Figure 8-1

9 Closing Procedures

9.1 Night Switch Operation

1. In areas where health codes will allow, the freezer may be switched to night operation that will allow the freezer to cycle all night and maintain approximately 38°F (3°C) or lower product in the cylinders and cabinet.
2. To switch the freezer to the night mode, leave the SELECTOR switches on "AUTO" and the cabinet switch "ON".
3. Turn the MTS switches to the "OFF" position.
4. Turn the DAY/NIGHT switches to "NIGHT" and let the machine cycle.
5. Remove serrated nozzles and clean the drip tray assembly and all soiled surfaces with soap and water. Use sanitizing solution in spray bottle and brush to clean the bottom of the plunger openings.
6. To start the machine after using the NIGHT mode, turn the DAY/NIGHT switches to "DAY" and the MTS switches to "ON". Before replacing sanitized nozzles use a small brush and sanitizer to clean the bottom of the plunger openings.

9.2 Draining Product

To remove frozen product from the cylinders:

1. Place the SELECTOR switches in the "CLEAN" position and the MTS switches in the "ON" position.
2. Let the beater shafts run for 5 minutes. This will allow the product in the cylinders to soften.
3. Place a clean, sanitized container under the dispensing nozzles.
4. See figure 9-1. Remove the stainless steel pickup tubes from the mix tanks. Remove the mix tanks while pulling the stainless steel pickup tube from the mix tank. Place mix in a clean, sanitized container. Disconnect the mix level probe cords from the back of the

— continued

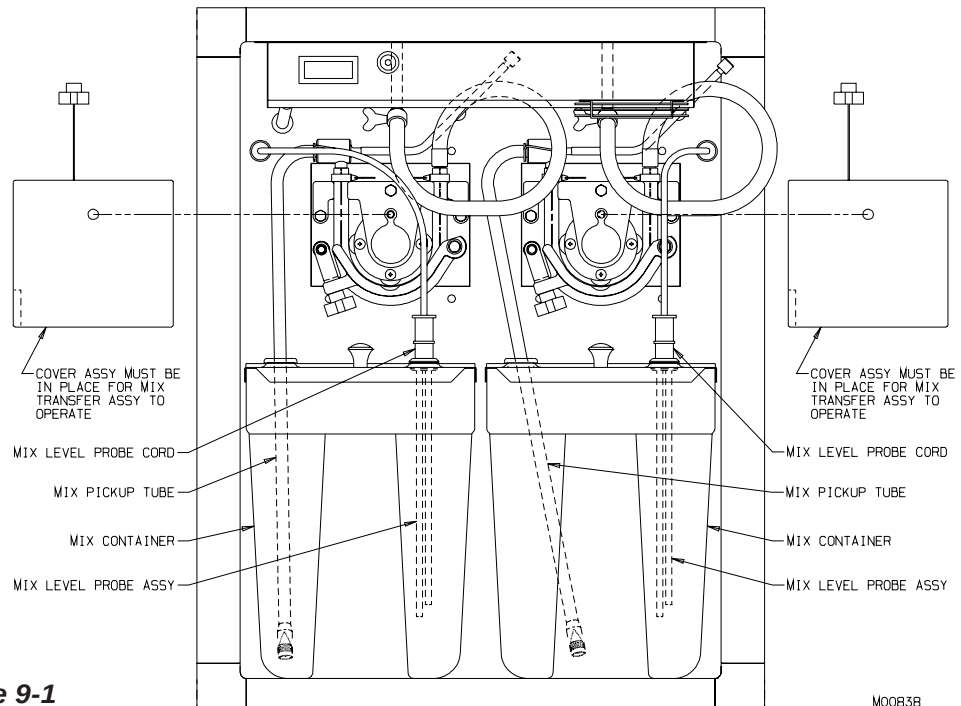


Figure 9-1

M0083B

9.2 Draining Product (continued)

5. Very slowly dispense the semi-frozen product until it quits dispensing.

6. Close plungers and turn MTS switches and the cabinet switch to "OFF". Place the tube assemblies into a container of cold water, turn MTS switches to "ON," and allow the MTS to fill and pressurize the cylinders with water.

7. Very slowly dispense the cold water. Follow with a container of warm water (100 to 110°F or 37 to 43°C) and repeat until the dispensed water is clear. Turn all switches to "OFF" and drain all water from the cylinders.

8. Prepare 2 gallons (7.5 liters) of sanitizing solution for each cylinder. Sanitizing solution must be mixed according to manufacturer's instructions to yield 100 ppm available chlorine solution (example: Stera-Sheen Green Label).

9. Insert the pickup tubes into the sanitizer solution and close the plungers.

10. Open the air bleed plugs by pulling up until the plugs touch the bottom of the switch box. Set the MTS switches to the "ON" position. When sanitizer solution flows out the bottom of the head, close the plugs and allow cylinders to pressurize.

11. Place the selector switches in the "CLEAN" position and allow the beaters to run for 5 minutes.

12. Slowly open the plungers and allow the MTS to push the sanitizer out of the cylinders. Leaving the plungers open, turn the selector switches to "OFF". Allow the MTS to push all remaining sanitizer out of the cylinders. When the sanitizer quits flowing, turn the MTS switches to "OFF".

13. Remove pickup tubes from sanitizing solution.



CAUTION
Make sure the freezer is depressurized before proceeding.

14. Refer to Section 6, Disassembly and Cleaning.

10 Soft Serve Information

10.1 Overrun

As mix is frozen in the freezing cylinder, air is incorporated into the mix to increase its volume, as well as enhance the taste and texture of the finished product. The increase in volume is called overrun. Fifty percent overrun means a volume increase of 50% — 10 gallons of liquid mix has become 15 gallons of finished product.

Controlled overrun is important to maintain consistency in product quality. Too much overrun (air) results in a light, fluffy product lacking the cold, refreshing appeal of a quality product. Too little overrun results in a wet, heavy product.

To correctly measure the overrun, perform the following steps:

- Place an empty pint container on the scale* and adjust your scale to zero.
- Remove container from scale and fill with liquid product to the top. Weigh container and record.

c. Replace liquid product with frozen product, being sure to leave no voids or air spaces in the container.

d. Strike off the excess product so it is even with the top of the container and measure the weight.

e. Use the following formula to figure overrun percentage:

“Weight of liquid mix minus weight of frozen product/divided by the frozen weight.” See example below:

Weight of pint of liquid mix = 18 oz.

Weight of pint of frozen product = 12 oz.

Difference = 6 oz.

6 oz. divided by 12 oz. = .5

.5 x 100 = 50% overrun

* Your Electro Freeze Distributor can provide a scale (P/N 158049) that is graduated in overrun percentage.

10.2 Overrun Adjustment

NOTE: Each person who operates the freezer should know what overrun is and how to calculate it.

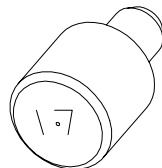
Overrun is regulated by the air meter. You were supplied with four air meters per side, each having a different size orifice. The smaller the hole and number, the lower the overrun. The larger the hole and number, the higher the overrun. Each half-size change of the air meter number will change the overrun 3 to 5%. Each full size change of the air meter number will change the overrun 8-10%. The orifice in this air meter must be open at all times. It is the only source of air into the freezing cylinder. Check this

daily!

The mix will be a factor in determining the amount of overrun you will be able to achieve. Some mixes will accept more air than others, thus affecting the size of air meter you can use. Test to see which air meter will give you the best overrun and the best product. Run each air meter for a few hours until you decide.

You may have a slightly higher overrun when you first start up the machine. After the machine has run long enough to dispense at least one full cylinder of product, you will have the overrun that the machine will hold the remainder of the day. Contact your mix supplier for the recommended amount of overrun for each product used.

Figure 10-1 Air Meter



11 Routine Maintenance

Electro Freeze recommends the following schedule to help maintain your Model 30T-RMT Soft Serve Twist Freezer in like-new operating condition. Take the time to learn and perform these routine procedures and receive in return many years of valuable service from your freezer. Protect your investment!

DAILY

1. Disassemble, wash, rinse, sanitize, and air-dry all parts that come into contact with the mix or product.



CAUTION

To prevent bacteria growth, remove all O-rings when cleaning. Failure to do so could create a health hazard.

2. Clean the cylinder, cylinder inlet tubes and drain tube with the appropriate brushes.
3. When cleaning, inspect all O-rings, seals and hoses. Replace any O-ring, seal or hose that is worn, torn, or loose fitting.
4. Wipe all exterior surfaces of the freezer to remove any splattered mix.
5. Check overrun and temperature of the product.

AS NEEDED



CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

1. Clean the Mix Transfer System:

Important:

If the transfer hose is assembled improperly or replacement has been neglected, it may be necessary to clean mix from the MTS due to hose failure.

If this happens frequently the MTS should be removed for complete cleaning.

— continued



11 Routine Maintenance (continued)

AS NEEDED (continued)



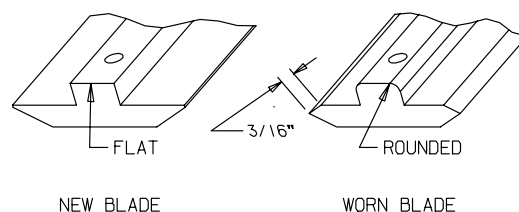
CAUTION
Make sure the freezer is depressurized before proceeding.

- a. Remove cover, loosen swing clamp and open shoe to gain access to the hose cavity.
- b. Remove mix transfer hose assembly.
- c. Lay a towel on the cabinet base below the MTS.
- d. Using the spray bottle supplied, flush the hose cavity and roller assembly.
- e. Use a brush (supplied) to clean in between rollers. Flush with sanitizer.
- f. Wipe all surfaces with a clean dry cloth.
- g. Remove and clean shoe. See figure 11-1.

WEEKLY

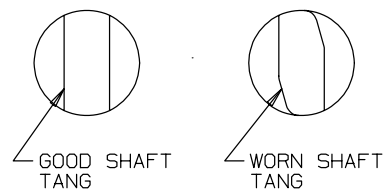
1. Carefully inspect all parts for wear, including seals, O-rings, mix transfer tubes, and blades.

2. Replace as required.



Replace blades if worn 3/16" or more.

3. Check the shaft tang and drive coupling for wear.



A worn coupling will have a nonparallel shape on the drive opening.

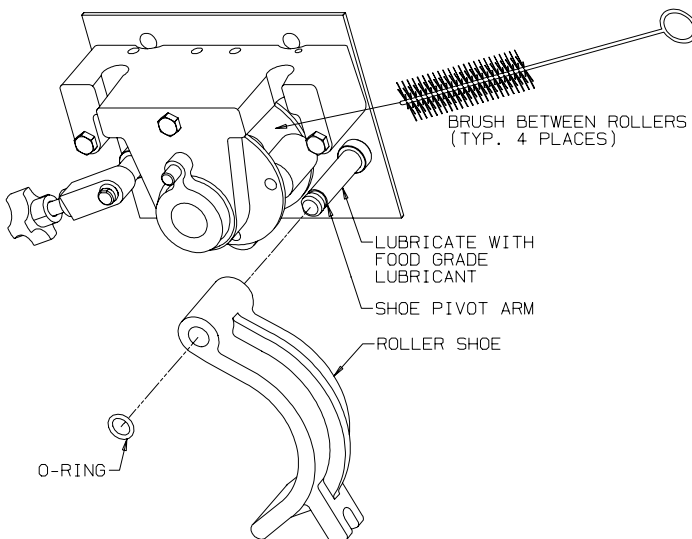


Figure 11-1

M00899

11 Routine Maintenance (continued)

MONTHLY

A. Test Head Switch.

The head switch feature is designed to prevent the beater shaft from being accidentally activated. It is essential that the proper operation of this switch be verified on a routine basis. Use the following instructions to test for proper operation:

1. Be sure all switches are in the "OFF" position.
2. Disconnect the main power supply.
3. Remove the dispense head and beater shaft assemblies.
4. Connect the main power supply.



CAUTION
Moving parts. **DO NOT** place hands in the freezing cylinder. Severe personal injury could result.

5. Turn the selector switch to the "CLEAN" position.
6. Look inside the freezing cylinder toward the rear—the drive shaft coupling should **NOT** be turning. Turn the switch off and disconnect the main power supply.
7. If the drive shaft coupling is turning, or you are unable to determine whether or not the shaft is turning, turn the switch to the "OFF" position, disconnect the main power supply and contact your Electro Freeze distributor for service. **DO NOT** place the freezer in service until the problem has been fixed.

B. Water Condenser.

Check the outlet water temperature of water-cooled condensers at the floor drain. Ideal water temperatures should be about 95°F (35°C) with a 70°F (21.1°C) water inlet temperature.

C. Test MTS Cover Switch.

The MTS cover switch feature is designed to prevent the MTS gear motor from being accidentally activated. It is essential that the proper operation of this switch be verified on a routine basis. Use the following instructions to test for proper operation:



CAUTION
Make sure system is depressurized before proceeding.

Note: Freezer should be cleaned and disassembled for this test.

1. Be sure all switches are in the "OFF" position.
2. Remove the MTS cover to expose the roller assembly.
3. Turn MTS switch to "ON".



CAUTION
DO NOT place hands near the MTS rollers. Severe personal injury could result.

— continued

11 Routine Maintenance (continued)

MONTHLY (continued)

C. MTS Cover Switch (continued)

4. Look at the MTS rollers; they should **NOT** be rotating. If they are rotating, turn "OFF" mix switch and discontinue use until repairs can be made.

5. If there is no movement, slowly install cover and listen for the gear motor to turn on. The cover should be almost completely closed when the gear motor turns on.

DO NOT insert fingers or objects into roller cavity during this test. If the MTS does not operate as described here, or you are unable to determine if the MTS is operating properly, turn the switches to the "OFF" position, disconnect the main power supply and contact your Electro Freeze Distributor for service. **DO NOT** place the freezer in service until the problem has been corrected.

D. Replace the Mix Transfer Hose



CAUTION

Make sure the freezer is depressurized before proceeding.



CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

11 Routine Maintenance (continued)

QUARTERLY

A. Air Condenser.

Important:

Never use a screwdriver or sharp object to clean between fins.

Have air-cooled condenser fins cleaned by your Electro Freeze Distributor.

B. Refrigeration System

Have your Electro Freeze Distributor check the refrigeration system and make any necessary adjustments.

SEMI-ANNUALLY

1. Have the gear reducer oil changed by your Electro Freeze Distributor.

NOTE: Under normal conditions, after the initial change, the oil should be changed after every 2500 hours of operation or every six months, whichever occurs first.

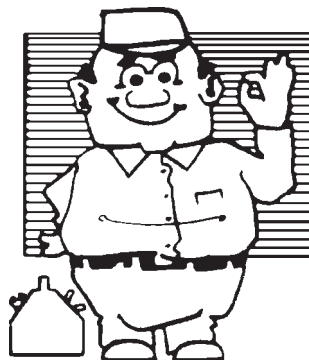
ANNUALLY

CAUTION



To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power source is disconnected. Some freezers have more than one disconnect switch.

1. Call your Electro Freeze Distributor for service to replace drive belts.
2. Call your Electro Freeze Distributor to clean the inside of the freezer, including base, side panels, condenser, etc.
3. Call your Electro Freeze Distributor to check water-cooled condenser and flush clean to remove scale and deposits if necessary.



11 Routine Maintenance (continued)

Winter Storage

To protect the unit during seasonal shutdown, it is important to store the soft serve twist freezer properly. Please use the following procedures:

1. Disconnect all power to the freezer.
2. Disassemble and wash all parts that come into contact with the mix with a warm, mild detergent solution. Rinse in clear water and air dry all parts thoroughly.
3. Store the loose parts, such as the head assembly, beater assembly and MTS parts in a safe, dry place.
4. Do not lay heavy objects on the plastic or rubber parts.
5. Cover the freezer and all loose parts to protect them from dust or other elements that could contaminate them while in storage. Place the freezer in a dry location.
6. On air-cooled freezers, have condenser fins cleaned by an authorized service technician.

Important

The water valve must be opened in order to blow out the condenser. Failure to purge the freezer of water can result in severe damage to the cooling system. Call your Electro Freeze Distributor for service.

7. On water-cooled freezers, disconnect the water supply. Use compressed air to blow out all remaining water in the condenser.

USE ONLY ORIGINAL OR AUTHORIZED REPLACEMENT PARTS WITH THIS FREEZER.

(See your Illustrated Replacement Parts Manual)

Should you have any questions on items that are not included in this maintenance schedule, or problems where service assistance is needed, please call your local *Electro Freeze* Distributor or H. C. Duke & Son, Inc., *Electro Freeze* Service Department for factory service at **(309) 755-4553 or FAX (309) 755-9858.**

12 Troubleshooting Tables

SAFETY



THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT PERSONAL SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY. DO NOT ATTEMPT TO CONTINUE UNTIL THE SAFETY PRECAUTIONS ARE THOROUGHLY UNDERSTOOD.



CAUTION

All maintenance adjustments must be done by an Electro Freeze Distributor or authorized service technician.



CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.

Important:

Some refrigerants are hazardous to the earth's atmosphere. To protect our environment, use a refrigerant recovery/recycling unit when removing refrigerant from the system.



12 Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Unit does not operate. 	1. Freezer unplugged. 2. Fuse or breaker blown at main disconnect. 3. Beater motor out on overload. 4. Off on high pressure cut out control. 5. Off on low pressure cut out control. 6. Faulty selector switch. 7. Disconnected or broken wire in electrical circuit.	1. Plug in freezer. 2. Make sure your freezer is connected to a separate circuit independent from any other electrical equipment. Check fuse or breaker size. Contact your Electro Freeze Distributor to check for low voltage. 3. Press overload reset button. Check product temperature and overrun. (Note: cabinet will cool) Contact your Electro Freeze Distributor to check for low voltage. 4. Refer to Troubleshooting Table - Compressor/Condensing Circuit - Discharge Pressure Too High. 5. Contact your Electro Freeze Distributor for service. 6. Contact your Electro Freeze Distributor for service. 7. Contact your Electro Freeze Distributor for service.
Mix leaking at dispensing head. 	1. Faulty head o-ring. 2. Head not properly installed.	1. Replace o-ring. 2. Install head properly. Replace o-ring if pinched.
Dispensed product too soft (Product temperature above 19°F [-7°C]) 	1. Blades installed upside down. 2. Dirty or blocked condenser, restricted air flow. 3. Thermostat set too high or faulty. 4. Component failure. 5. Leak in refrigeration system resulting in little or no refrigeration.	1. Install properly. 2. Contact your Electro Freeze Distributor for service. 3. Contact your Electro Freeze Distributor for service. 4. Contact your Electro Freeze Distributor for service. 5. Contact your Electro Freeze Distributor for service.

12 Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Product dispenses slowly out of dispensing head.	1. MTS pressure too low.	1. Contact your Electro Freeze Distributor for service.
	2. Product too cold.	2. Check product temperature; should be about 18°F (-7.8°C). See "Machine runs continuously and product gets too cold".
	3. Low overrun.	3. Check air meter. If plugged, clean. See M.T.S. Troubleshooting Table - No Air.
	4. MTS problem.	4. See M.T.S. Troubleshooting Table.
	5. Reverse rotation on beater.	5. Have an electrician correct rotation to clockwise as viewed from the front of freezer.
Dispensed product too hard.	1. Cylinder thermostat erratic or set too cold.	1. Contact your Electro Freeze Distributor for service.
	2. Low overrun.	2. Check overrun, if low see M.T.S. Troubleshooting Table. No air.
	3. Plunger switch electrically or mechanically stuck closed. (Unit runs all the time.)	3. Remove plunger rod. If the freezer shuts off, contact your Electro Freeze Distributor.
	4. Component failure.	4. Contact your Electro Freeze Distributor for service.
	5. Low suction pressure, refrigeration system.	5. Contact your Electro Freeze Distributor for service.
	6. Dispense speed set too slow.	6. Contact your Electro Freeze Distributor for service.
Machine runs continuously and product gets too cold.	1. Plunger switch rod engaged.	1. Close plunger completely.
	2. Plunger switch (side or center) out of adjustment or defective.	2. Contact your Electro Freeze Distributor for service.
	3. Faulty thermostat or bulb not deep enough in well.	3. Contact your Electro Freeze Distributor for service.
	4. Starter or relay contact points stuck.	4. Contact your Electro Freeze Distributor for service.
	5. Faulty time delay.	5. Contact your Electro Freeze Distributor for service.
	6. Suction pressure too low.	6. Contact your Electro Freeze Distributor for service.
	7. Faulty control relay	7. Contact your Electro Freeze Distributor for service.

12 Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Poor or slow product recovery. 	1. Dirty or blocked condenser, restricted air flow - high ambient temperature.	1. Have condenser cleaned by your Electro Freeze Distributor; lower ambient temperature.
	2. Thermostat cut in point out of adjustment or malfunctioning.	2. Contact your Electro Freeze Distributor for service.
	3. Defective condenser fan motor.	3. Contact your Electro Freeze Distributor for service.
	4. Component or compressor failure.	4. Contact your Electro Freeze Distributor for service.
Compressor does not operate or operates improperly.	1. Trouble in compressor condensing circuit.	1. Contact your Electro Freeze Distributor for service.
	2. Faulty start capacitor, run capacitor or relay. (single phase only)	2. Contact your Electro Freeze Distributor for service.
	3. Faulty contactor.	3. Contact your Electro Freeze Distributor for service.
	4. Disconnected or broken wire in switch or capacitor relay box.	4. Contact your Electro Freeze Distributor for service.
Beater motor does not operate. 	1. Head assembly is not installed.	1. Install head assembly.
	2. Magnetic head switch defective.	2. Contact your Electro Freeze Distributor for service.
	3. Loose connection in control circuit.	3. Contact your Electro Freeze Distributor for service.
	4. Open starter coil.	4. Contact your Electro Freeze Distributor for service.
	5. Worn out relay contacts.	5. Contact your Electro Freeze Distributor for service.
	6. Faulty capacitor assembly. (Single phase only).	6. Contact your Electro Freeze Distributor for service.
	7. Faulty beater motor.	7. Contact your Electro Freeze Distributor for service.
Compressor and beater motor operates only when dispensing.	1. Cylinder thermostat, setting too warm or thermostat defective.	1. Contact your Electro Freeze Distributor for service.

12 Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Compressor and beater motor do not operate when dispensing.	1. Plunger switch(es) defective or out of adjustment.	1. Contact your Electro Freeze Distributor for service.
	2. Time delay defective.	2. Contact your Electro Freeze Distributor for service.
	3. Control relay defective.	3. Contact your Electro Freeze Distributor for service.
Cabinet too cold (below 35°F [1.7°C])	1. Cabinet setting too low.	1. Contact your Electro Freeze Distributor for service.
	2. Defective thermostat.	2. Contact your Electro Freeze Distributor for service.
	3. Cabinet solenoid stuck open.	3. Contact your Electro Freeze Distributor for service.
	4. Cabinet expansion valve set too low.	4. Contact your Electro Freeze Distributor for service.
Mix sours in cabinet.	1. Cabinet thermostat defective, set too warm or turned off.	1. Contact your Electro Freeze Distributor for service.
	2. Cabinet solenoid defective (does not open).	2. Contact your Electro Freeze Distributor for service.
	3. Cabinet switch defective.	3. Contact your Electro Freeze Distributor for service.
	4. Door switch defective.	4. Contact your Electro Freeze Distributor for service.
	5. Cabinet contactor coil open (mix sours in night mode only).	5. Contact your Electro Freeze Distributor for service.
Leakage of mix or water from drain tube to drip tray. 	1. Damaged beater shaft seal or installed improperly.	1. Replace cup seal or o-ring inside bushing. Install properly.
	2. Beater shaft pitted or damaged where o-ring rides.	2. Replace beater shaft.
	3. Beater shaft end play not set properly.	3. Contact your Electro Freeze Distributor for service.

12.1 Compressor/Condensing Circuit Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Unit operates long or continuously.	1. Dirty condenser.	1. Have condenser cleaned by your Electro Freeze Distributor.
	2. Shortage of refrigerant.	2. Contact your Electro Freeze Distributor for service.
	3. Moisture in system.	3. Contact your Electro Freeze Distributor for service.
	4. Compressor failing.	4. Contact your Electro Freeze Distributor for service.
Discharge pressure too high.	1. Water turned off or defective water regulating valve.	1. Contact your Electro Freeze Distributor for service.
	2. Restricted water cooled condenser.	2. Contact your Electro Freeze Distributor for service.
	3. Dirty condenser.	3. Have condenser cleaned by your Electro Freeze Distributor.
	4. Unit location too warm (air cooled).	4. Relocate unit away from restriction. Place nothing against the back, sides, or on the top of the unit.
	5. Refrigerant overcharge.	5. Contact your Electro Freeze Distributor for service.
	6. Air in system.	6. Contact your Electro Freeze Distributor for service.
	7. Water hose kinked or pinched. (Water cooled freezers only)	7. Move freezer and adjust hose so it is not pinched or kinked.

12.1 Compressor/Condensing Circuit Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Discharge pressure too low.	1. Water regulating valve open too wide.	1. Contact your Electro Freeze Distributor for service.
	2. Shortage of refrigerant	2. Contact your Electro Freeze Distributor for service.
Noisy compressor	1. Tubing rattle.	1. Contact your Electro Freeze Distributor for service.
	2. Spring broke internally.	2. Contact your Electro Freeze Distributor for service.

NOTE: Contact your authorized Electro Freeze Distributor for instructions prior to warranty compressor replacement.

12.2 Mix Transfer System (MTS) Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Mix leaks out of M.T.S. 	1. Transfer hose worn and split.	1. Remove, clean inside M.T.S. around rollers with spray bottle provided, install new hose.
Mix transfer system (MTS) will not operate. 	1. MTS cover not properly installed. 2. Hose not installed properly. 3. Cover switch defective. 4. MTS relay defective. 5. Start capacitor defective or motor start-relay defective. 6. Pressure switch defective. 7. Motor burned out or tripped overload.	1. Install cover under hose clamps. 2. Check position-reinstall. 3. Contact your Electro Freeze Distributor for service. 4. Contact your Electro Freeze Distributor for service. 5. Contact your Electro Freeze Distributor for service. 6. Contact your Electro Freeze Distributor for service. 7. Contact your Electro Freeze Distributor for service.
M.T.S. cycles on and off with out dispensing. 	1. Leak on pressure side of system. 2. Worn transfer hose.	1. Find leak and correct, check head, drain tube and all hoses. 2. Replace hose.
M.T.S. will not prime. 	1. Insufficient supply of mix. 2. Air hose or air meter not installed. 3. Hose not installed.	1. Replenish mix supply. 2. Install air hose/air meter. 3. Install hose.
Mix pick up tube losses prime. 	1. Transfer hose worn. 2. Defective duckbill check valve.	1. Replace transfer hose. 2. Replace check valve.
No Air (Overrun). 	1. Air meter plugged. 2. Air tube pinched.	1. Clean or replace air meter. 2. Replace tube.

12.2 Mix Transfer System (MTS) Troubleshooting Tables

PROBLEM	PROBABLE CAUSE	REMEDY
Too much air, overrun too high-popping problems. 	1. Air meter too large.	1. Install smaller air meter.
	2. Air leak between mix inlet tube and hose.	2. Replace as needed.
	3. Air line hose cracked-sucking air.	3. Replace air line hose.
	4. Defective duckbill valve or duckbill fell out.	4. Replace valve.
	5. O-ring on mix inlet tube worn or cut	5. Replace o-ring.
MTS will not shut off. 	1. MTS hose worn out.	1. Replace hose.
	2. Mix relay defective.	2. Contact your Electro Freeze Distributor for service.
	3. Pressure switch stuck in closed position.	3. Contact your Electro Freeze Distributor for service.
Mix shoots out air meter. 	1. Transfer hose worn.	1. Replace hose.
	2. MTS shoe clamp knob not tight.	2. Tighten knob.
	3. MTS pressure too high.	3. Contact your Electro Freeze Distributor for service.



QUALITY PARTS
 PROTECT
 YOUR
 INVESTMENT

Keep your freezer in excellent condition. Always contact your Electro Freeze Distributor for replacement parts and maintenance scheduling.

ELECTRO FREEZE®

Replacement Parts Manual with Illustrations

FREEDOM 360°
Series

**Soft Serve Twist Freezer
Model 30T-RMT**

184952-01 - 12/02

Replacement Parts Orders

You must have the serial number of your freezer when ordering parts — parts may differ with a particular serial number of the same model.

Parts are listed using terminology that best fits the function of the part. The illustrations in this section will help you to find the correct part number and description. The alphabetized parts list can be used to verify part numbers pertaining to the serial number of your unit.

Place your parts order through your local authorized Electro Freeze Distributor.

Name: _____

Address: _____

Phone: _____

If you require any further assistance, contact H.C. Duke & Son, Inc., *Electro Freeze* as follows:



Phone: (309) 755-4553

FAX: (309) 755-9858

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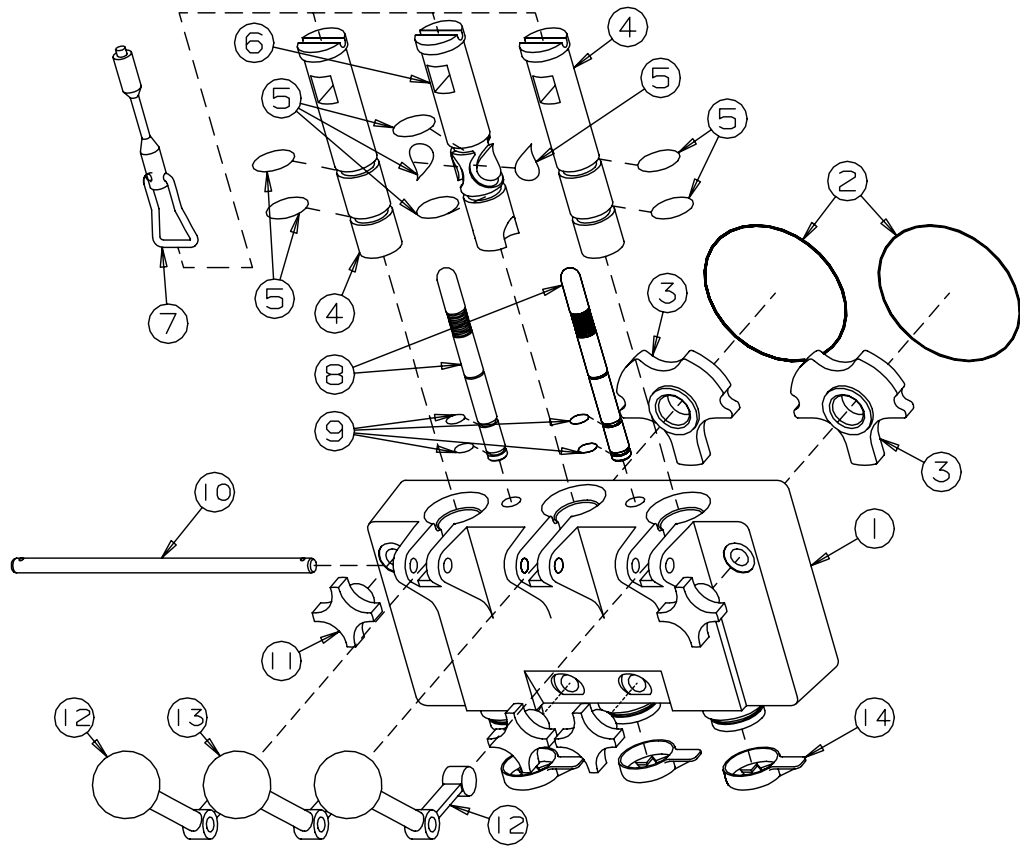
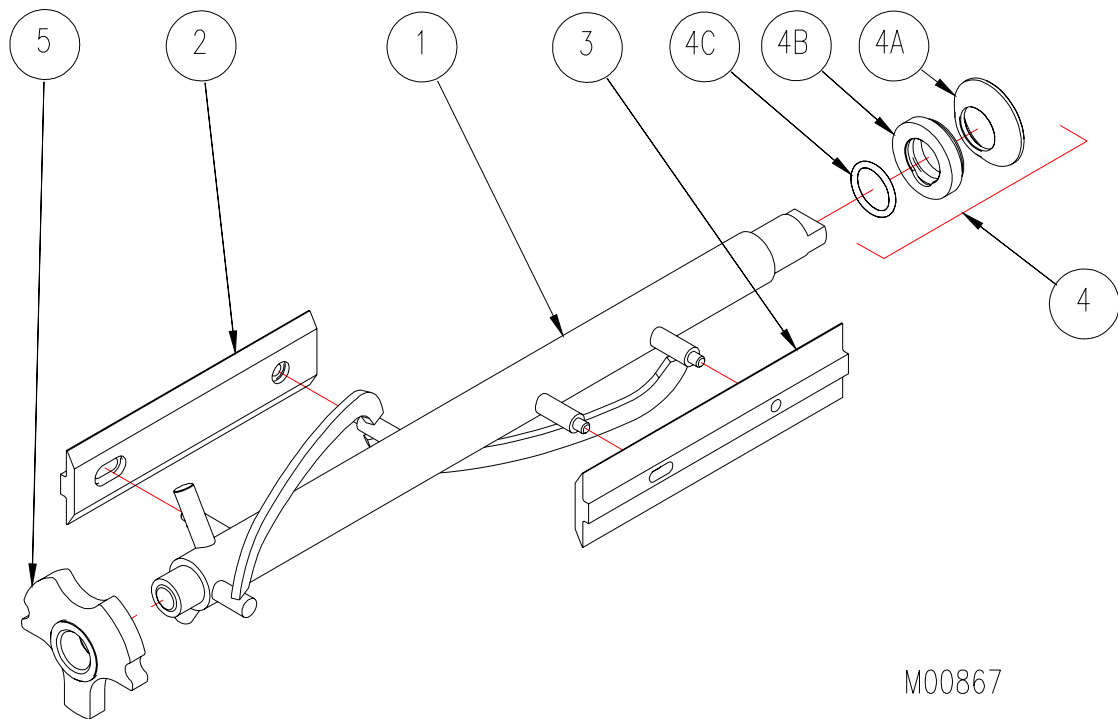


Figure 1 Head Assembly

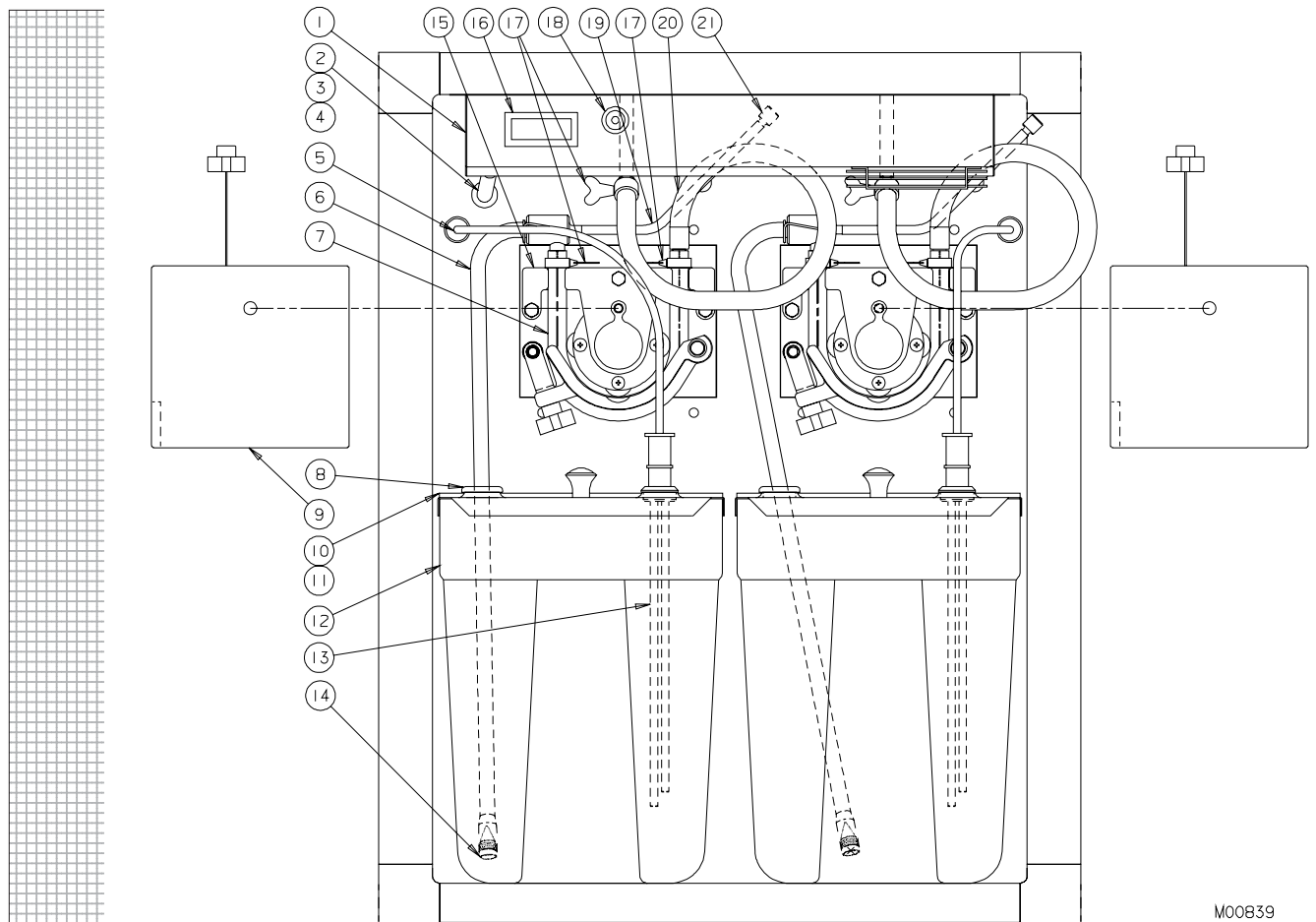
Item	Part No.	Description
*	116042	Head-Assy.Dispense
1	116041	Head-Assy. w/actuators
2	159309	O-Ring (Head)
3	138427	Bushing-Dispense Head
4	137174	Plunger-Side Self Dispense
5	160501	O-Ring (Plunger)
6	138009	Plunger-Dispense Center
7	116089	Push Rod-Assy. Plunger Switch
8	138149	Plug-Air Bleed
9	160610	O-Ring (Air Plug)
10	160269	Pin-Handle
11	162625	Knob-Hand
12	110007	Handle-Assy. Dispense (Side)
	162629	Knob-Ball 3/8-16 THD Black
13	114808	Handle-Assy. Dispense Center
	162629	Knob-Ball 3/8-16 THD Black
14	196185	Nozzle-Serrated
* Includes all items above except #3, 7 and 11.		
	114341-05	Stud-Assy. Cylinder 3-15/16 (not shown)
	116410	Kit-Dispense Head Switch (not shown)



M00867

Figure 2 Beater Shaft Assembly

Item	Part No.	Description
1	117079	Shaft-Assy. Beater
2	138830	Blade-Scraper Front (Short)
3	138831	Blade-Scraper Rear (Long)
4	111875	Seal-Assy. Shaft
4A	160557	Seal-Beater Shaft (Cup)
4B	133098	Washer-Shaft Seal (Bushing)
4C	160500	O-ring (Seal)
5	138427	Bushing-Dispense Head



M00839

Figure 3 Cabinet Parts

REF.	PART No.	DESCRIPTION	REF.	PART No.	DESCRIPTION
1	117129-01	Shroud-Assy. Evaporator	9	118767	Cover-Assy. RMT
	150532	Cord-Assy. Male Plug	10	113997	Cover-Assy. Front Mix Tank
	151105	Fan-Intake (Cabinet)	11	138165-01	Cover-Rear Mix RMT
	151076	Guard-Fan Open	12	196222	Tank-Mix 7 Gal. 13-1/2"
	150509	Switch-Door Push Button	13	115397	Probe-Assy. Mix Level 10-3/4" (7 Gal.)
	161004	Thermometer-Barrel		137120	Base-Probe Mtg.
1A	155111	Coil-Evaporator	14	199032-01	Duckbill-Inlet RM MTS
1B	150533	Cord-Assy. Female Plug	15	118751	MT-Assy CAB Redline (See Explode View-Figure 5)
2	160738	Clamp-Hose Drain	16	161004	Thermometer-Barrel
3	196068	Tubing-3/8 ID x 1/2 OD	17	116065	Clamp-Assy. Soft Hose 5/8
4	138919	Tube-Drain Support	18	150509	Switch-Door Push Button
5	150537	Cordset-Mix Level Probe	18A	118597	Actuator-Assy. Door Switch
5A	150536	Receptacle-Molded Level Sensor	19	138170-02	Tube-Air
6	118842	Tube-Assy. Pickup 2PC	20	116094	Hose-Assy. Mix Braided
	118765	Port-Assy. Inlet Mix/Air	21		Meter-Air (Order by meter number)
	118836	Tube-Assy. Mix Inlet			
	162324	Clip-Tube Retainer			
	160502	O-ring			
7	138836	Hose-Transfer Red Line			
8	199033	Boot-Mix Tube			

Figure 4 Mix Transfer System — RMT (sheet 1 of 2)

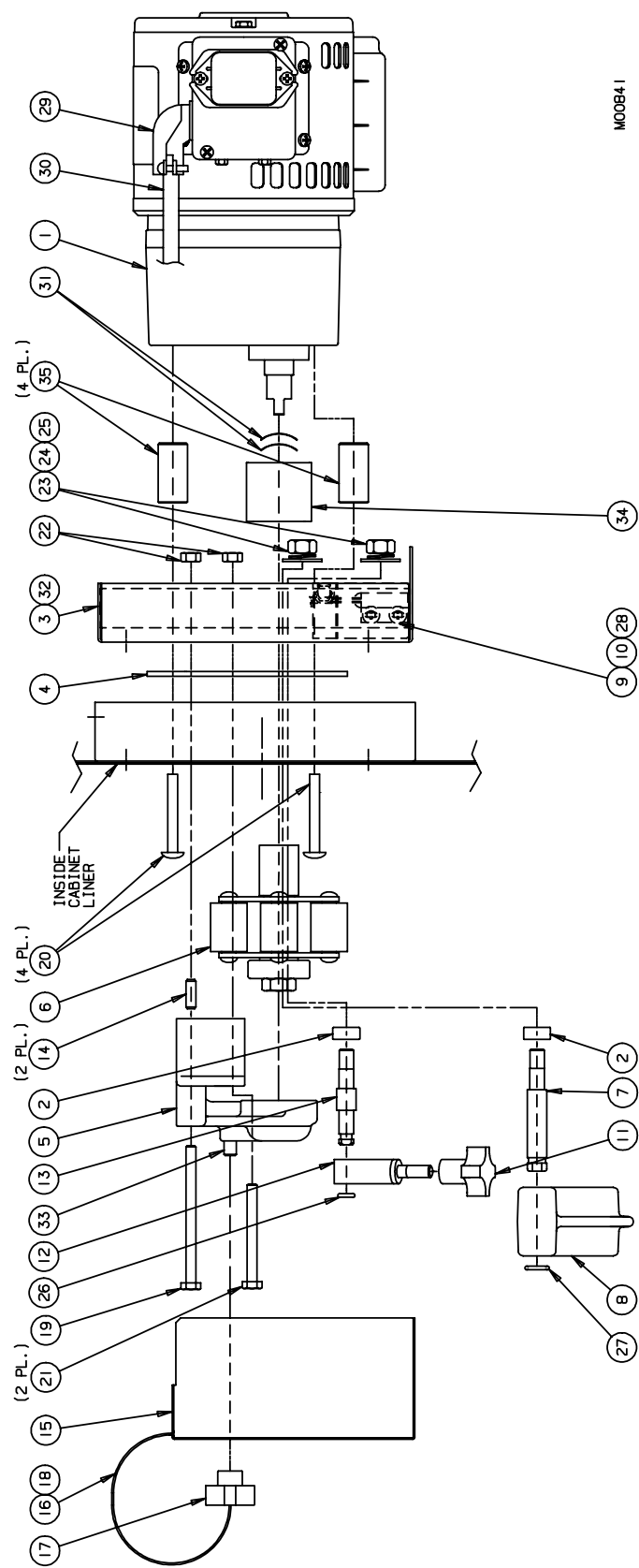
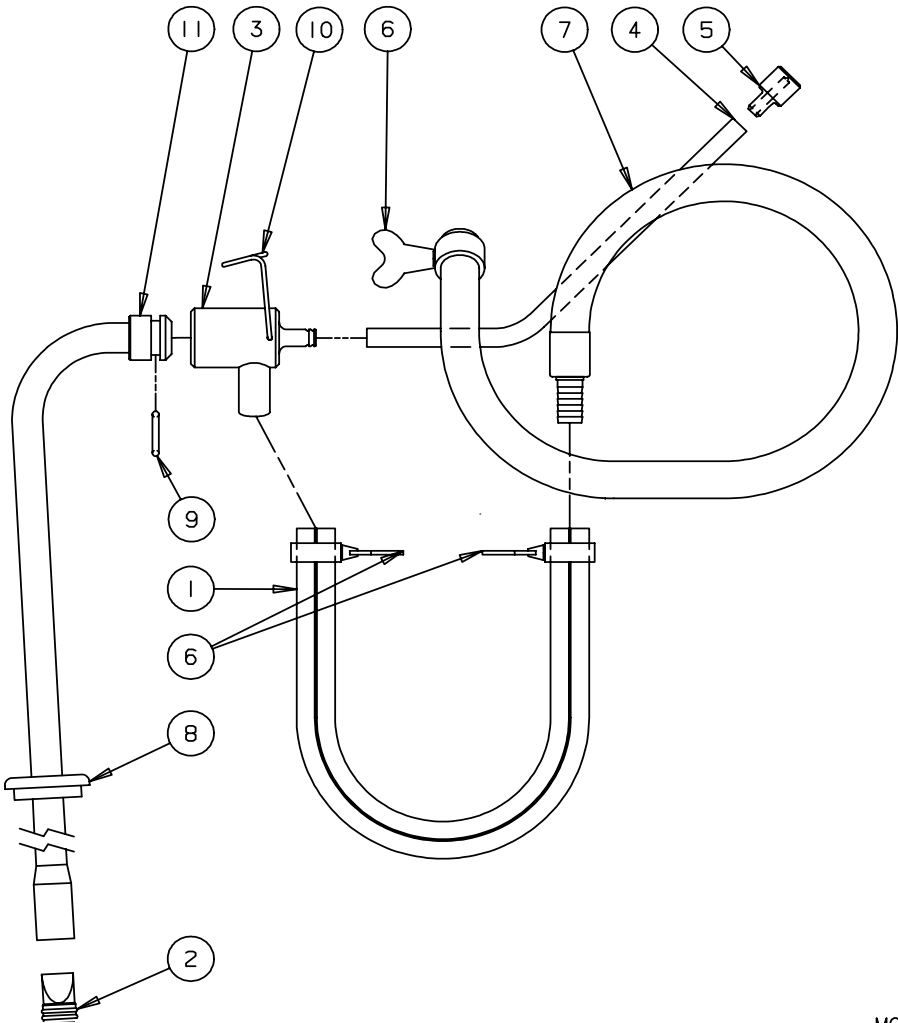


Figure 4 Mix Transfer System — RMT (Sheet 2 of 2)

Item	Part No.	Description
1	151132	Gearmotor-1/8 HP
2	138800	Spacer-Swing Arm
3	118764	Faceplate-Assy. MTS
4	139746	Plate-Backup MTS
5	138783-01	Support-Roller Bearing
6	116009-01	Kit-Roller (Complete)
7	138797	Arm-Shoe Pivot
8	139751	Shoe-Roller
9	118763	Bracket-Assy. Switch Mtg.
10	118894	Kit-Cover Switch RMT Freezer
	160357	Screw-RDHM #4-40 x 1/4 STL
	160393	Washer-Flat #6 Brass
11	162622	Knob-Hand
12	138798	Clamp-Shoe Swing
13	138799	Arm-Swing Clamp
14	160338	Pin-Dowel 1/4 DIA x 3/4 SST
15	118767	Cover-Assy. RMT
16	138890	Lanyard-Wire
17	138889	Knob-Cover RMT
18	160508	Sleeve-Cable Stop 3/64
19	160465	Screw-HXHC 1/4-20 x 3-1/2 SST
20	160093	Screw-RHMS 1/4-28 x 2-1/4 SST
21	160464	Screw-HXHC 1/4-20 x 2-1/2 SST
22	159933	Nut-HXSF 1/4-40 SST
23	160169	Washer-Flat 3/8 SST
24	159927	Nut-HEX 3/8-16 SST
25	160170	Washer-Lock 3/8 SST
26	160628	O-ring (Swing Clamp)
27	160612	O-ring (Roller Shoe)
28	159939	Screw-HXSF 1/4-20 x 11/16 SST
29	150705	Connector-3/8 x 90°
30	118833	Cord-Assy. Motor
31	160145	Washer-Curved Spring
32	165524	Block-Insulation RMT
33	160386	Stud-5/16-18 x 3/4 SST
34	139756	Shield-Drip
35	138793	Spacer-Motor



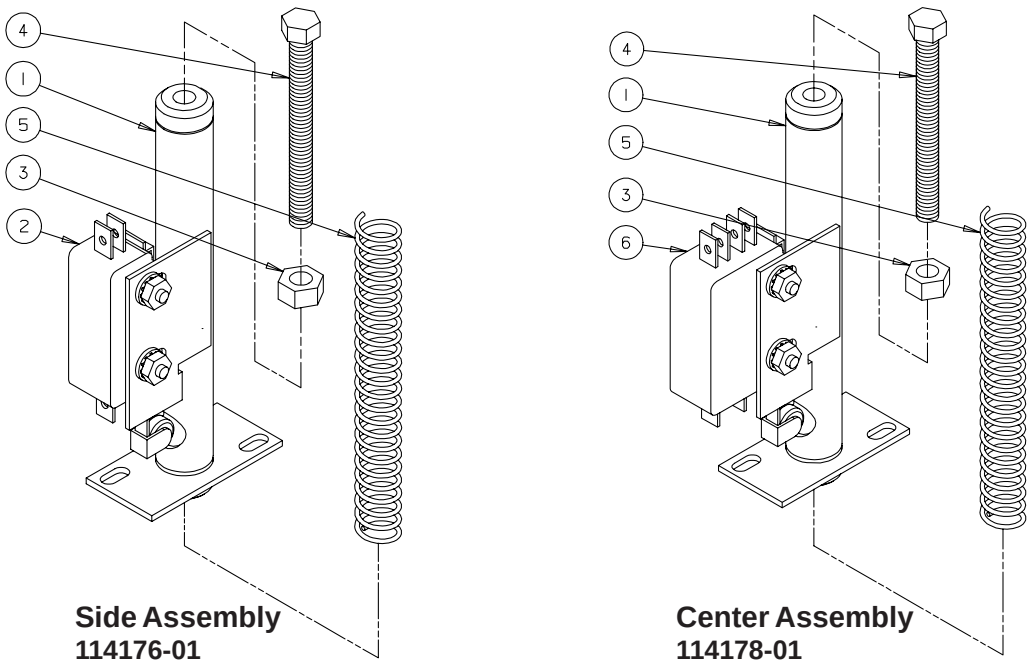
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Figure 5 MTS—RMT Hose Assembly

Item	Part No.	Description
1	138836	Hose-Transfer Red Line
2	199032-01	Duckbill-Inlet (Valve)
3	118765*	Port-Assy. Inlet Mix/Air
4	138170-02	Tube-Air (Hose)
5		Meter-Air (Order by meter number)
6	116065	Clamp-Assy. Soft Hose 5/8
7	116094	Hose-Assy. Mix Braided
8	199033	Boot-Mix Tube (Seal)
9	160502*	O-ring
10	162324*	Clip-Tube Retainer
11	118836*	Tube-Assy. Mix Inlet

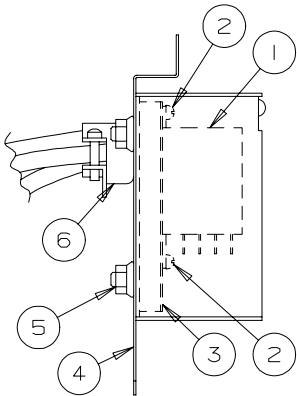
* Can be ordered as an assembly:
118842 Tube-Assy. Pickup

Figure 6 Switch Assemblies



Item	Part No.	Description
*	114176-01	Switch-Assy. Self Closing Plunger (Sides)
**	114178-01	Switch-Assy. Self Closing Plunger (Center)
1	114174	Guide-Assy. Push Rod
2	150477	Switch-Roller Actuator SPDT (Sides)
3	160104	Nut-HEX 1/4-20 ZN
4	159965	Screw-HSHM 1/4-20 x 2-1/2" ZN
5	162323	Spring-Compression
6	150478	Switch-Roller Actuator DPDT (Center)
* Includes items 1-5		
** Includes items 1, 3-6		

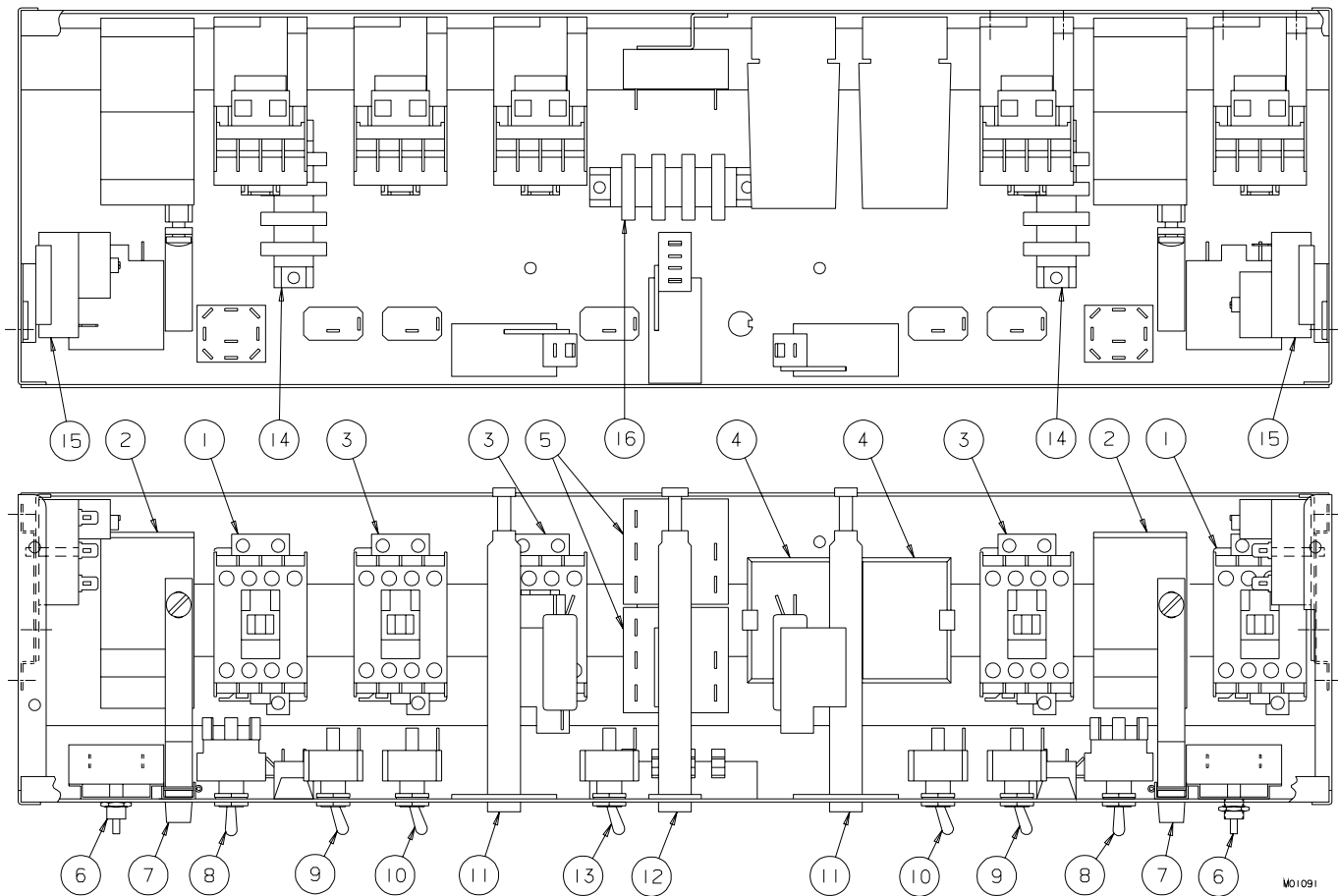
Figure 7 Relay Box — MTS



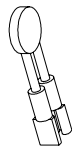
Item	Part No.	Description
*	119208	Box-Assy.Relay
1	150381	Relay-Flange Base w/Cover
2	160308	Screw-RDHM #6-32 x 5/16 ZN
2A	160116	Nut-Speed #6-32 BKOX
3	138159	Bracket-Flange Relay Mtg.
4	139805	Support-MTS
5	159950	Screw-HXSF 1/4-20 x 1/2 ZN
5A	159951	Nut-HXSF 1/4-20 ZN
6	150828	Connector-1/2

* Includes item 1 through 6.

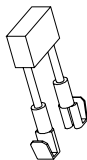
Figure 8 Switch Box— sheet 1 of 2



Detailed Drawings
of
Filter and MOV Assemblies



Item #14A
MOV-Assy.
116188



Item #8A
Filter-Assy.
116125

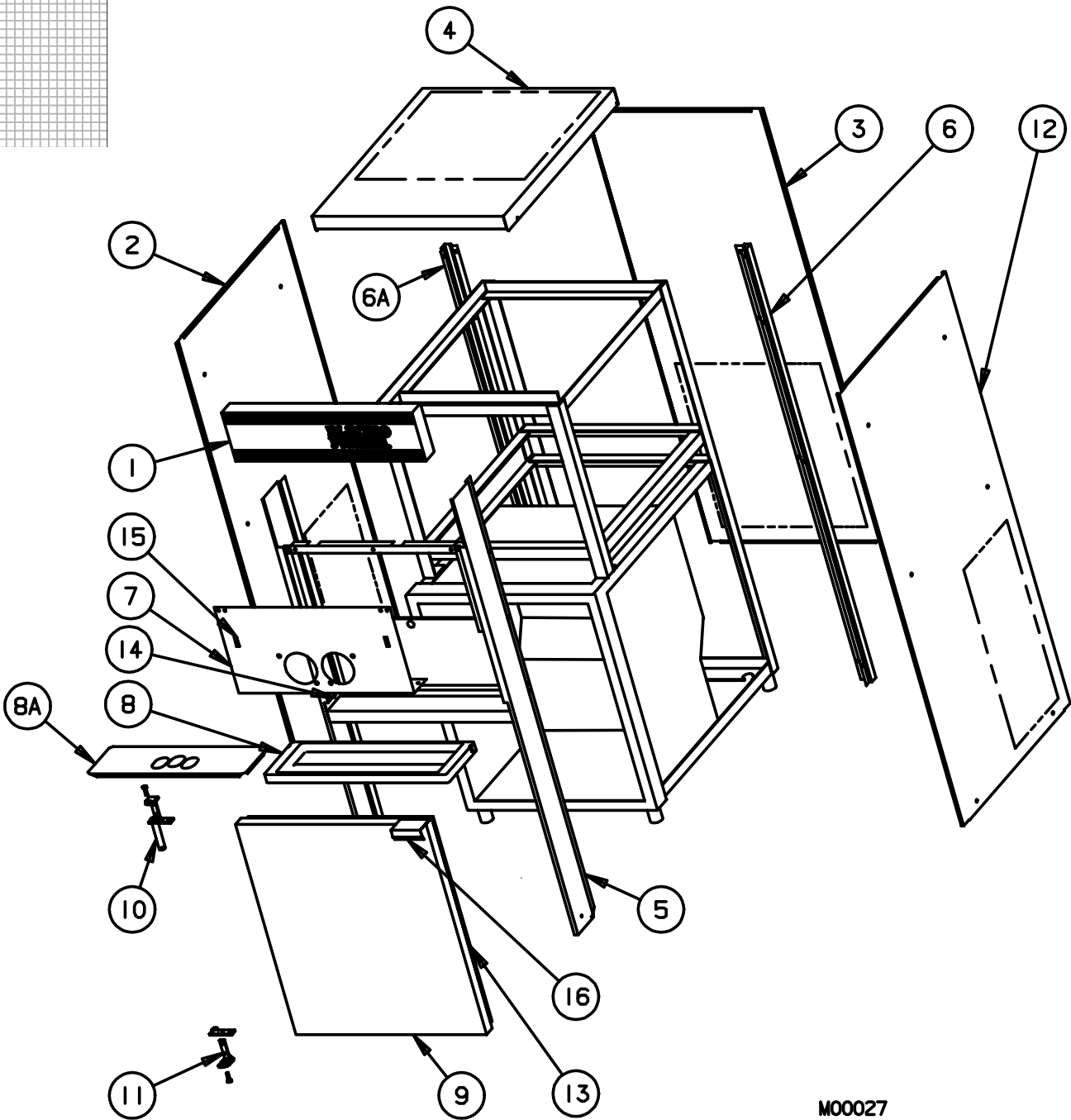
Figure 8 Switch Box— sheet 2 of 2

Item	Part No.	Description
1	150135	Contactor-IEC (Beater Motor)
1A	150134	Coil-Replacement Contactor (not shown)
2	118359	Relay-Assy. Overload 1 phase 5-15A
	150145	Adaptor-Overload Din Rail
	150150	Button-Overload Reset Adaptor
	150140	Relay-SS Overload 1ph 5-15A
	118361	Relay-Assy. Overload 3 phase 3.7-12A
	150145	Adaptor-Overload Din Rail
	150150	Button-Overload Reset Adaptor
	150142	Relay-SS Overload 3ph 3.7-12A
3	150135	Contactor-IEC (Compressor & Fan)
3A	150134	Coil-Replacement (Contactor)(not shown)
4	150202	Indicator-Mix Level
4A	150540	Light-Indicator (not shown)
4B	150119	Socket-Octal
4C	150120	Clip-Retainer
5	150208	Timer-12 Sec. Delay on Break
6	150218	Timer-5 Minute
6A	162604	Knob-Timer
7	118390	Lever-Reset & Button
	159036	Button-Reset
8	150465	Switch-Toggle 3PDT Center OFF (Selector)
8A	116125	Filter-Assy. (L.H.) (See detailed drawing)
9	159235	Switch-Toggle SPST (DAY/NIGHT)
10	159235	Switch-Toggle SPST (Mix Transfer System)
11	114176-01	Switch-Assy. Self Closing Plunger (Sides)
	150477	Switch-Roller Actuator SPDT
	162323	Spring-Compression
12	114178-01	Switch-Assy. Self Closing Plunger (Center)
	150478	Switch-Roller Actuator DPDT
	162323	Spring-Compression
13	159235	Switch-Toggle SPST (Cabinet)
14	150795	Strip-Terminal
14A	116188	M.O.V.-Assy (See detailed drawing)
15	150252-01	Timer-.5-60 Delay on Break 230
15A	150253	Module-Plug on Variable Time
16	150795	Strip-Terminal

L.H. = Left hand side of freezer when facing front.

R.H. = Right hand side of freezer when facing front.

Figure 9 Panel Assembly — sheet 1 of 2



M00027

Figure 9 Panel Assembly — sheet 2 of 2

Item	Part No.	Description
1	115292-03	Trimstrip-Assy. EF Decal 26 inch 165188-01 Decal-Trimstrip EF Logo 26" 165191 Decal-Freedom 360°
2	136289-C	Panel-Side LH
3	136313-C	Panel-Rear (Air Cooled and Water Cooled)
	138982	Panel-Upper Rear (Air Cooled Remote)
	138983	Panel-Lower Rear (Air Cooled Remote)
4	116567-C	Panel-Assy. Top (Air Cooled)
	114157-C	Panel-Assy. Top (Water Cooled and Air Cooled Remote)
5	113985-C	Panel-Assy. Front
6	130021-C	Channel-Rear R.H. (Corner)
6A	135254-C	Channel-Rear L.H. (Corner)
7	137297-C	Panel-Dispense
8	196108	Tray-Drip 26" Black
8A	115132	Insert-Assy. Drip Tray26" 137282 Insert-Drip Tray 199030 Bumper-Rubber
9	114260-C	Door-Assy. (w/hinges)
9A	118597	Actuator-Assy. Door Switch
10	162045	Hinge-Pivot 1-3/8 Top L.H. 162052 Spring-L.H.
11	162046	Hinge-Pivot 1-3/8 Bottom L.H.
12	136216-C	Panel-Side-R.H.
13	160563	Gasket-Magnetic Door (V-Groove)
14	159175	Catch-Bullet (Button-Drip Tray)
14A	160289	Nut-Push Round
15	150540	Light-Indicator ADD MIX
16	136199	Pull-Door(Handle-CAB)

L.H. = Left hand side of freezer when facing front.
R.H. = Right hand side of freezer when facing front.

Hardware for 30T-RMT Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Channel-Rear	160048	160117	n/a	n/a
Dispense	160076	159132	138456	n/a
Front	160076	159132	n/a	159067
Rear	160048	160114	138456	n/a
Side	159219	160114	138456	n/a
Top	160305	n/a	n/a	n/a
Trimstrip	160076	n/a	n/a	n/a
n/a - Not Applicable				

Panel Decals	
Part No.	Description
165119	6" Air Flow (Air or Water Cooled)
165025	Beater Warning
164113	Cleaning Instructions
165093	Clear Overlay
164110	CMT Connection Red Line
165013	CMT Patent
165191	Freedom 360° Trimstrip
164004-01	MTS Operating Instructions
164020	MTS Trimstrip LH
164021	MTS Trimstrip RH
165124	Top Air Discharge
165188-01	Trimstrip EF Logo 26"
165126	Panel Removal
169048	Ventilation (Air cooled remote)
165246	Warning Pressurized

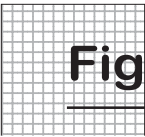
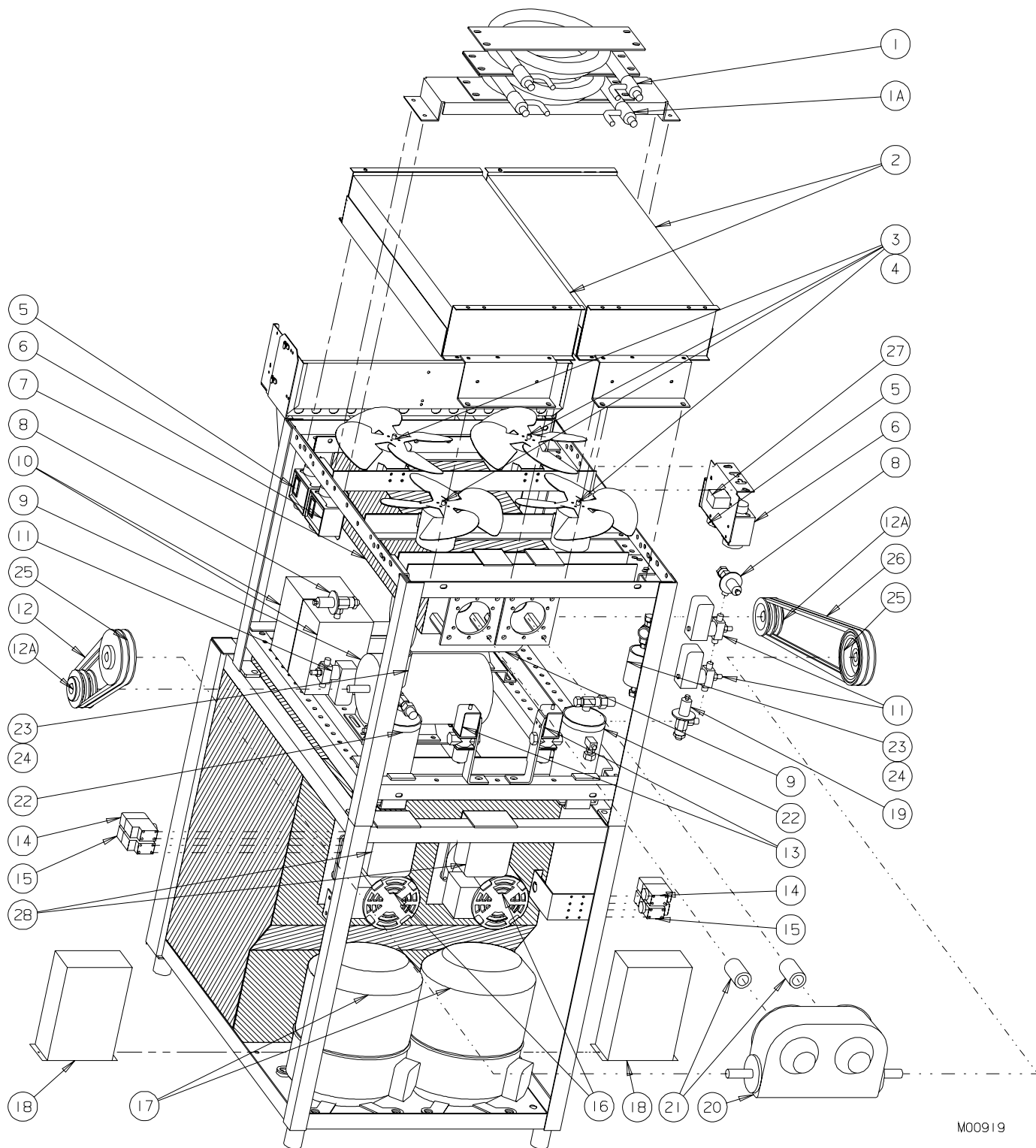


Figure 10 Assembly (sheet 1 of 2)



M00919




Figure 10 Assembly (sheet 2 of 2)

Item	Part No.	Description			
1	155029	Condenser-Water	17A	155047	Valve-1/2 Service Rotalock RH
2	155120-C	Condenser-Air	17B	155049	Valve-1/2 Service Rotalock LH
2A	116564	Bracket-Assy. Rear (Air)	18	118647	Box-Assy. Capacitor & Relay (1 ph) (Manurop Compressors)
2B	116565	Bracket-Assy. Front (Air)	151448		Kit-Compressor Start Capacitor & Relay
2C	113989	Hanger-Assy. Air Condenser	151447		Capacitor-Run Valve-Automatic Expansion (Cabinet)
3	159023	Blade-Fan 11" 36° (Air Cooled)	19	155449	Reducer-Gear (See Figure 11 - Gear Reducer)
4	151077-01	Motor-Fan 50w 230v (Air Cooled)	20	153341	Coupling-Assy. 1 Inch Drive
5	155442	Thermostat-Low (Day)	21	111964	Receiver-3 lb. 3/8 ID Sweat (Air & Water Cooled)
6	155442	Thermostat-Low (Night)	22	155057	Receiver-12 lb. Horizontal Mount (Air Cooled Remote)
7	118689	Cylinder-Assy. Complete	23	155054	Drier-Filter
7A	118712	Kit-Pressure Switch 30 psi	24	155059	Glass-Sight
7B	116105	Nut-Assy. Pressure Switch	25	153625	Sheave-3/4 Bore 4.75 OD (Driven)
7C	116410	Kit-Dispense Head Switch	153322		Key-Drive 3/16 sq x 1-1/2
7D	115004-01	Tube-Assy. Drain 20-1/4	160495		Screw-Sk Set 1/4-20 x 1/4
8	155451	Valve-Automatic Expansion (Cylinder)	26	153171	Belt-V (LH)
9	151066	Motor-2 HP (3ph)	27	118813	Kit-CAB Thermostat (Cabinet)
	118254	Kit-Motor & Cap 2HP (1ph)	28	119208	Box-Assy. MTS Relay (See Figure 7)
		150318 Capacitor-Run			
		150319 Capacitor-Start			
10	-----	Capacitor Box (Beater Motor)			
		150319 Capacitor-Start (1ph)			
		150318 Capacitor-Run (1ph)			
11	155421	Valve-Solenoid			
11A	155434	Kit-Solenoid Valve			
12	153161	Belt-V (RH)			
12A	153626	Sheave- 7/8 Bore 3.25 OD (Driver)			
		153322 Key-Drive 3/16 sq x 1-1/2			
		160495 Screw-Sk Set 1/4-20 x 1/4			
13	112080	Valve-Assy Water			
		132972 Bracket-Water Valve			
		155410 Valve-Water			
13A	155444	Kit-Water Valve Repair			
14	155425	Cut Out-Pressure High			
15	155403	Cut Out-Pressure Low (Air & Water Cooled)			
	155465	Cut Out-Pressure Low (Air Cooled Remote)			
16	151132	Gearmotor-1/8 HP (Mix Transfer)			
17	118686	Compressor-Assy. (3 phase)			
		155054 Drier-Filter			
	118685	Compressor-Assy. (1phase)			
		151447 Capacitor-Run			
		151448 Kit-Compressor Start Capacitor & Relay			
		155054 Drier-Filter			

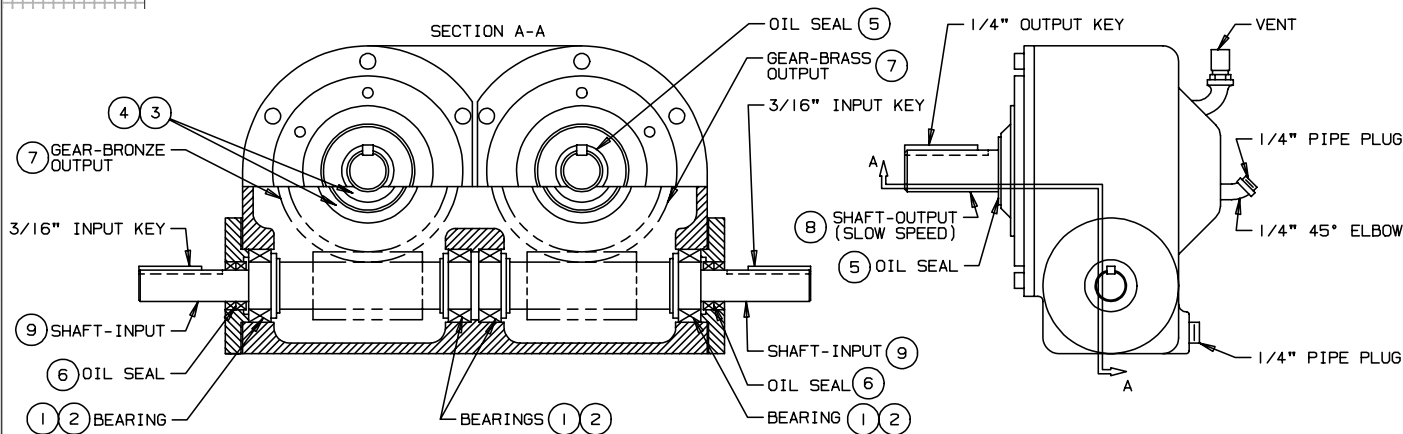
Not Shown:

161216 Sensor-10K Thermistor

LH = Left hand side of the freezer as you face the front.

RH = Right hand side of the freezer as you face the front.

Figure 11 Gear Reducers

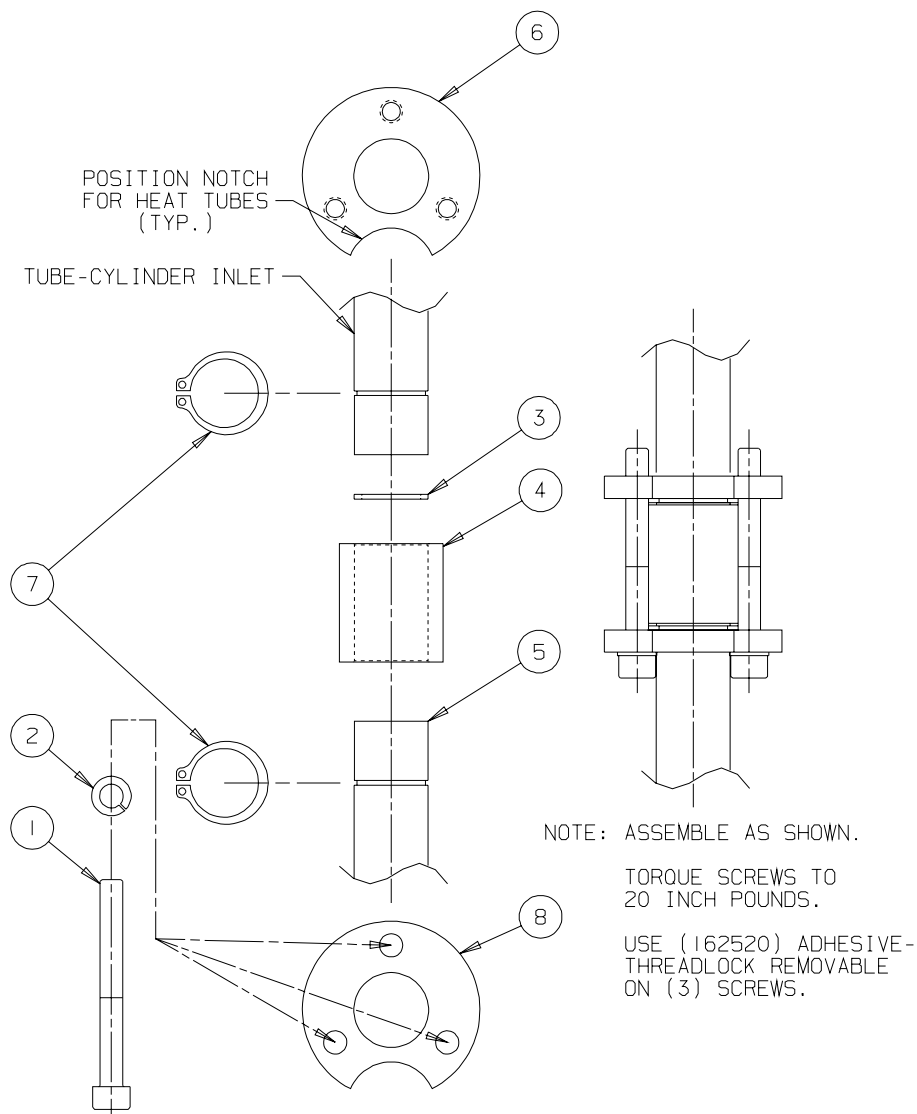


M00057

(Order by freezer serial number)
Model — Wintwin

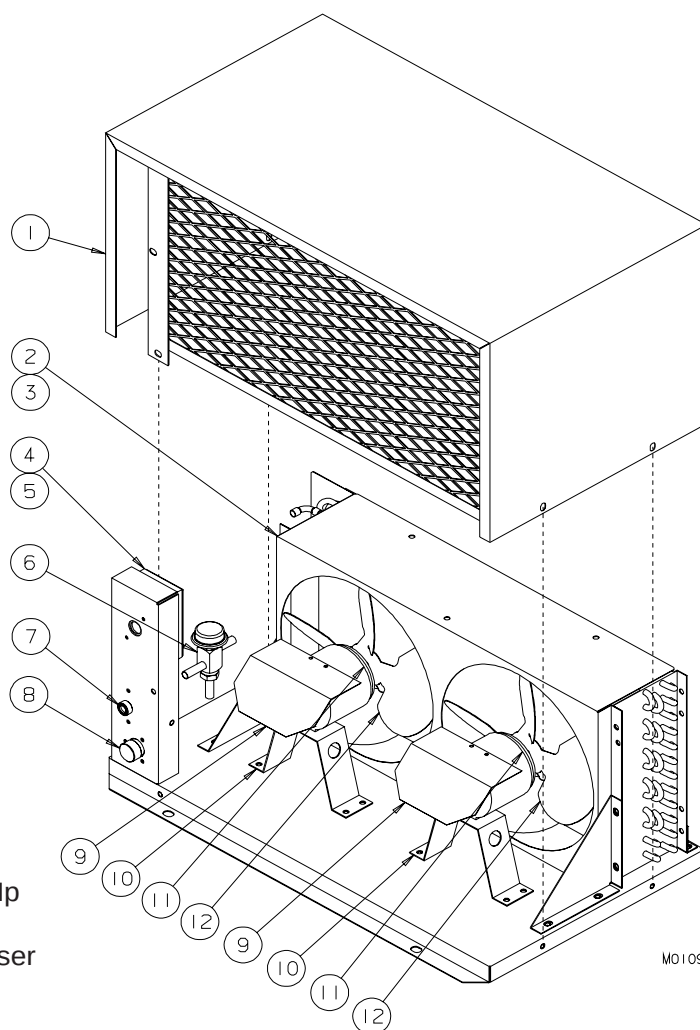
153341 Wintwin 10 - 1 Ratio A and B Side

Ref	P/N	Description	Required Per Side
1	153014	Bearing-High Speed Cup	2 ea.
2	153015	Bearing-High Speed Cone	2 ea.
3	153011	Bearing-Slow Speed Cup	2 ea.
4	153012	Bearing-Slow Speed Cone	2 ea.
5	153051	Seal-Oil (Slow Speed)	2 ea.
6	153053	Seal-Oil (High Speed)	2 ea.
7	153349	Gear-Bronze	1 ea.
8	153350	Shaft-Slow Speed	1 ea.
	153000	Gear-Assy. Output (Slow Speed)	
9	153348	Shaft-Input (High Speed)	1 ea.
10	114874	Kit-Reducer Gasket 4CB	1 ea.
11	111964	Coupling-Assy. 1 inch Drive	
	158055	Oil-Gear Reducer 51001 Special Synthetic (per quart)	
	153322	Key-Drive 3/16" High (in)	
	153323	Key-Drive 1/4" Slow (out)	

Figure 12 Mix Feed Seal Assembly

Item	Part No.	Description
1	160320	Screw-SKHC #10-24 x 1-3/4 SST
2	160166	Washer-Lock #10 SST
3	160556	Gasket-Mix Joint
4	139351	Collar-Alignment
5	139349	Tube-Mix Feed Clamp
6	139352	Clamp-Ring Threaded
7	160312	Ring-Retaining 5/8 Ext. SST
8	139353	Clamp-Ring

Figure 13 Air Cooled Remote Condenser



M01092

REF.	PART No.	DESCRIPTION
*	116781-01	Condenser-Assy. 2 Hp Remote (Complete)
1	117207	Cover-Assy. Condenser
2	155120-C	Condenser-Air
3	138465	Shroud-Fan
4	150732	Box-Electric 2-3/4 x 4-1/2 x 2
5	150737	Cover-Electric Box 2-3/4 x 4-1/2
6	155454	Valve-Head Pressure Control
7	153420	Coupling-Refr. 3/8 MQC 3/8 SW
7A	140039	Plate-Coupling Mtg.
8	153418	Coupling-Refr. 1/2MQC 1/2 SW
8A	153502	Flange-Refr. Coupling Mount 1/2
8B	153503	Cap-Dust Refr. Coupling
9	139017	Shield-Motor Rain
10	137632	Bracket-Fan Condenser
11	151072	Motor-Fan 50W 230V 60Hz
12	159029	Blade-Fan 11" Dia 36°

* Includes all items above.

- 155058 Receiver-12 lb. Horizontal Mount (not shown)
- 155465 Cut Out-Low Pressure (not shown)
- 155466 Control-Pressure Fan (not shown)
- 119124 Kit-25 Foot Line Sets 404a
- 119125 Kit-50 Foot Line Sets 404a

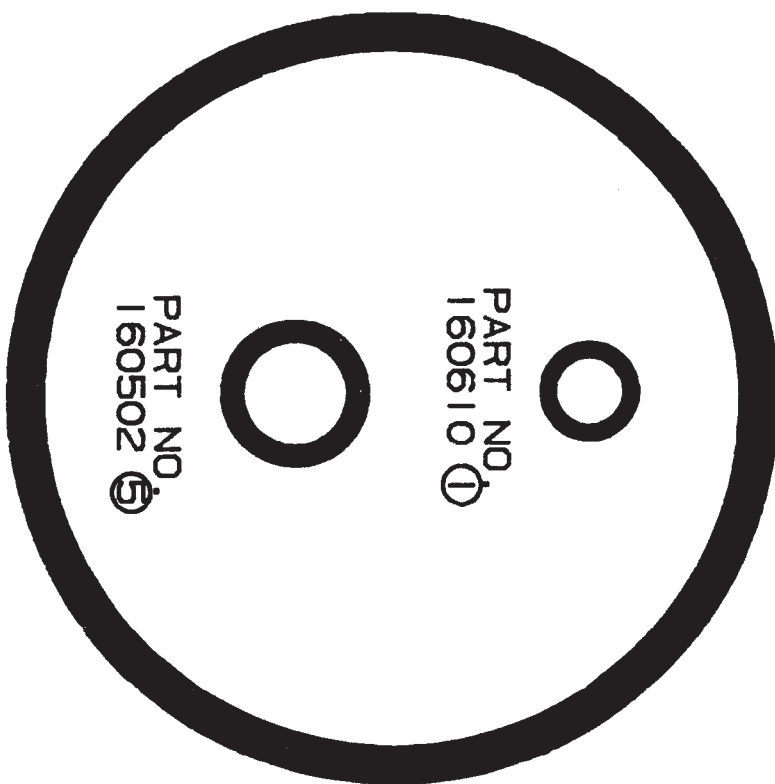
Accessories

PART No.	DESCRIPTION
196103	Bottle-Wash 500ML (Plunger and MTS)
158004	Brush-4" w/36" Handle (Cylinder)
158009	Brush-4" w/o Handle
158018	Brush-7/16" Dia. 12" Overall Length
158019	Brush-9/16" Dia. 30" Overall Length
158026	Brush-1" Dia. 12" Long
162105	Caster-1-1/4" ST PT with Brake
162106	Caster-1/14" ST PT without Brake
184254	Chart-O-ring (Laminated)
158051	Cup-Overrun (use with P/N 158049 scale)
118747	Kit-RMT Redline
118897	Kit-O-ring
112978	Leg-Assy. 6"
158000A	Lubricant-Petrol Gel 4 oz. tube (per tube)
158014	Sanitizer-Stera-Sheen (per case/4 jars)
158014A	Sanitizer-Stera-Sheen (per 4lb. jar)
158049	Scale-Overrun
184871	Sheet-Clean & Sanitize
169374	Tool-O-Ring Removal

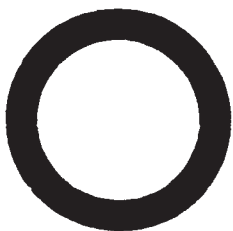
184256

SOFT SERVE DISPENSING HEADS

REV A



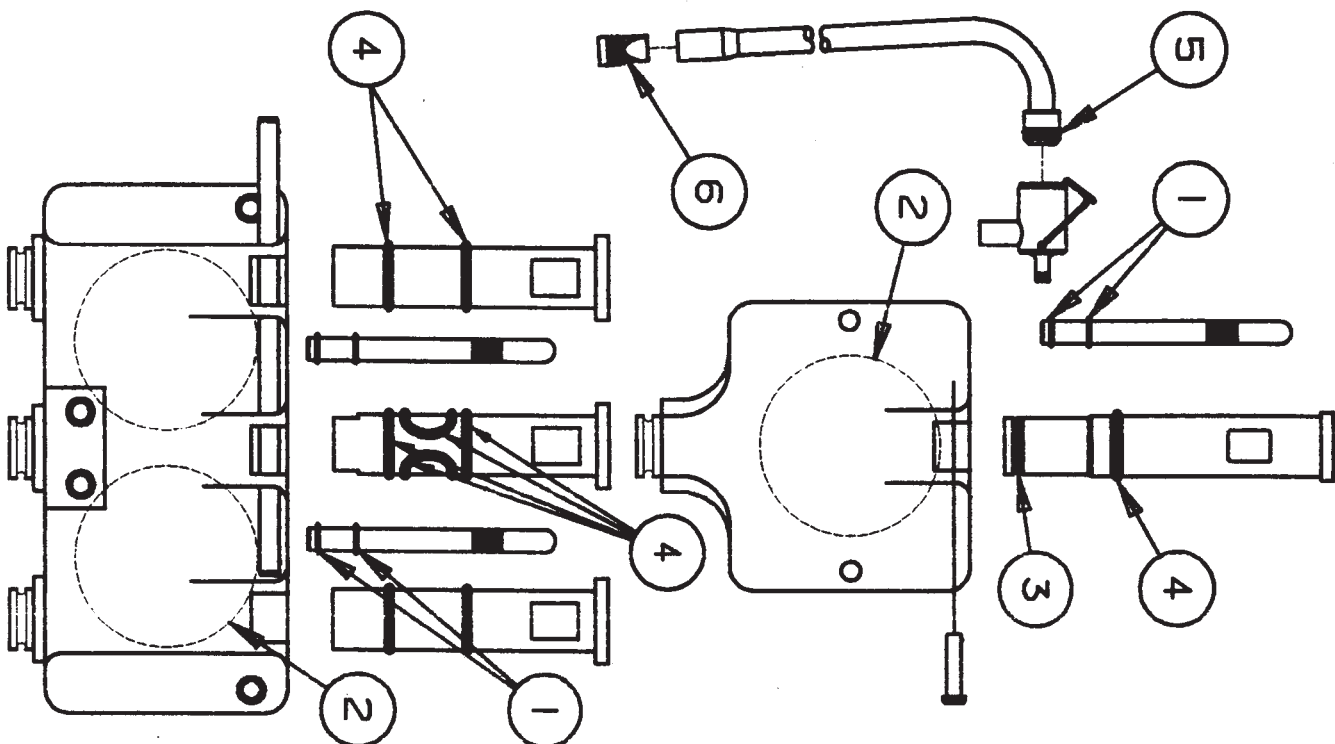
PART NO
160582 ③



PART NO
160501 ④



PART NO
199032-01 ⑥



PH. NO. 309-755-4553

O-RING

CHART

H.C. DUKE & SON, INC.

Use only original or authorized replacement parts with this freezer.

Cleaning & Sanitizing Electro Freeze® 30T-RMT and 88T-RMT Freezers

This instruction sheet is not intended to be used in place of the Operator's Manual. Use the following information to assist you only after you have read, understood, and are accomplished in the procedures for cleaning and sanitizing detailed in the Electro Freeze freezer Operator's Manual.

DRAINING PRODUCT

Follow Closing Procedures in Operator's Manual to remove frozen product from the freezer.

1. Turn selector switches to "**CLEAN**", MTS switches to "**ON**", CAB switch to "**OFF**".
2. Empty the remaining mix out of mix containers.
3. Run beaters 5 minutes to soften product. Dispense as much frozen product as possible.
4. Pour 2 gallons of cool water into each mix container, allowing the cylinders to fill with water.
5. Open plungers to drain mix and water. Repeat step 4 until water is clear.
6. Prepare and pour 2 gallons of warm sanitizing solution of 100ppm available chlorine in container.
7. Open air bleed and fill each cylinder with sanitizer. Close air bleed. Place selector switch to clean for 5 minutes.
8. Put all switches in the "**OFF**" position. Drain completely.

DISASSEMBLY



CAUTION: To avoid electrical shock or contact with moving parts, make sure all switches are in the "**OFF**" position and that the main power supply is disconnected. Some freezers have more than one disconnect switch.



CAUTION: PRESSURIZED SYSTEM.
Plungers must be open before disassembly.

Disassemble the freezer components in accordance with the Operator's Manual instructions.

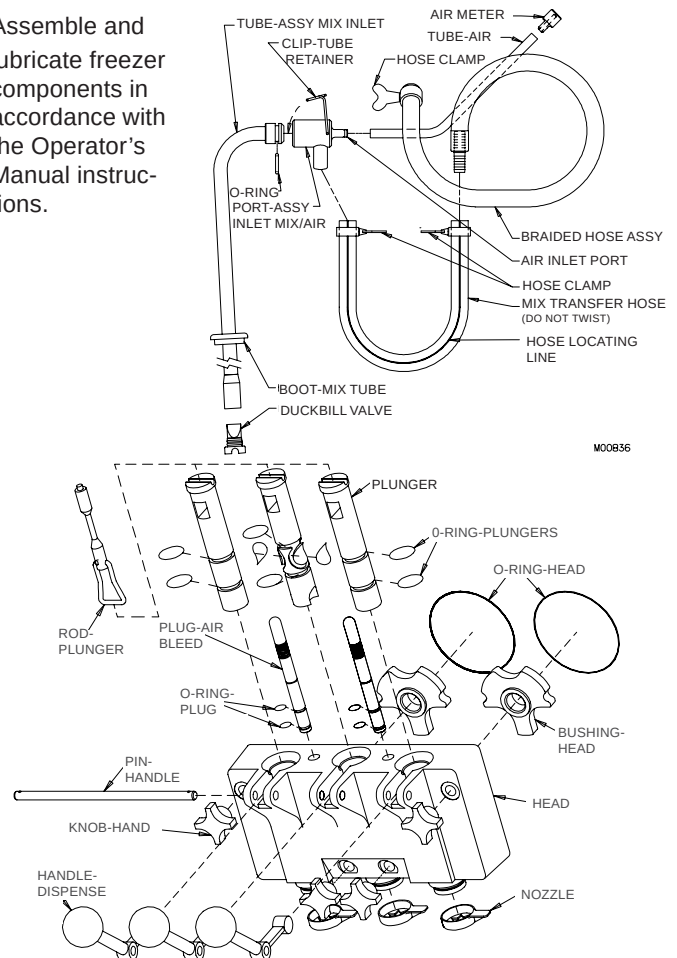
1. Remove dispensing head and beater shafts from freezer. Disassemble MTS and move to cleaning area.

CLEANING

1. Prepare a three-compartment sink for cleaning, rinsing, and sanitizing parts removed from the freezer per applicable health codes. The sanitizer should be mixed according to the manufacturer's instructions to yield 100 parts per million (PPM) available chlorine solution. (example: Stera-Sheen Green Label).
2. Disassemble all parts and remove o-rings. Clean each part with the appropriate brush supplied with freezer.
3. Wash, rinse, sanitize, and air dry all parts removed from the freezer. For proper sanitizing, the parts must remain in the sanitizer for 5 minutes.
4. Go to freezer and use sanitizing solution to thoroughly brush the mix feed tubes from the refrigerated cabinet to the cylinders.
5. Brush the inside of the cylinders with sanitizing solution, making certain to clean the back walls.
6. Brush the inside of the drain tube.

ASSEMBLY

Assemble and lubricate freezer components in accordance with the Operator's Manual instructions.



SANITIZING

1. Wash and sanitize your hands and forearms.
2. Prepare 2 gallons (7.5 liters) of sanitizing solution in each mix container. Sanitizing solution must be mixed according to manufacturer's instructions to yield 100 PPM (parts per million) available chlorine solution.
3. Brush the interior mix container walls, the underside of the container covers, and low mix probes with sanitizer solution.
4. Place the mix containers with sanitizer in the refrigerated cabinet, insert pickup tube and sanitize exterior of the tubes.
5. Place an empty container under the dispensing head.
6. Open the air bleed plugs by pulling up until the plugs touch the bottom of the switch box.
7. Reconnect the main power supply to the freezer. Turn the MTS switches to "**ON**". This will push the sanitizer into the cylinders.
8. When sanitizer flows out the bottom of the dispense head, close the air bleed plugs.
- (over)
9. Turn both selector switches to "**CLEAN**" and allow the beaters to run for 5 minutes. Check for leaks around the

SANITIZING (continued)

- head, drain tube, clamps and MTS.
10. Drain the solution from the cylinders by slowly pulling down on the dispense handles. **NOTE: Some sanitizer will remain in hoses and cylinders.**
11. Leave the handles down, and turn the selector switches to "OFF". Let the MTS force all possible sanitizer out of the freezing cylinders.

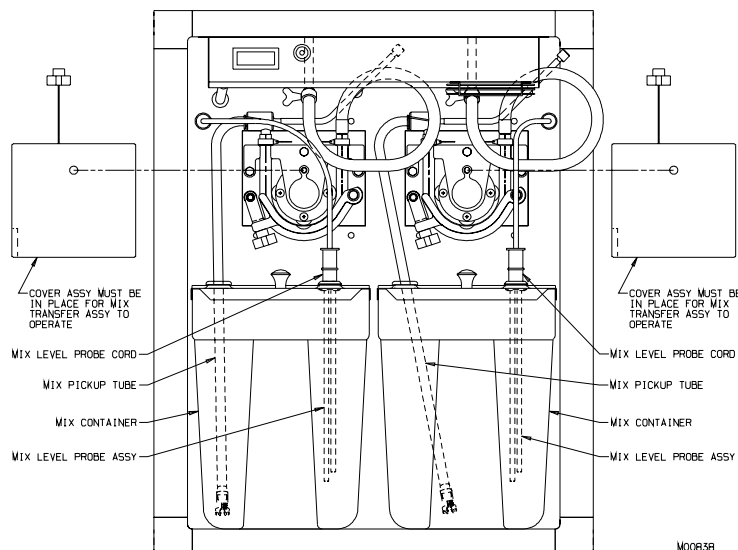
Important:

Failure to completely remove sanitizer or water from the freezing cylinder before placing in "AUTO" will damage the freezer.

12. Turn the MTS switches to "OFF".
13. Remove the mix inlet tubes, holding the top 6-inch portion only.
14. Remove the mix containers and empty any remaining sanitizer.

Priming The Freezer

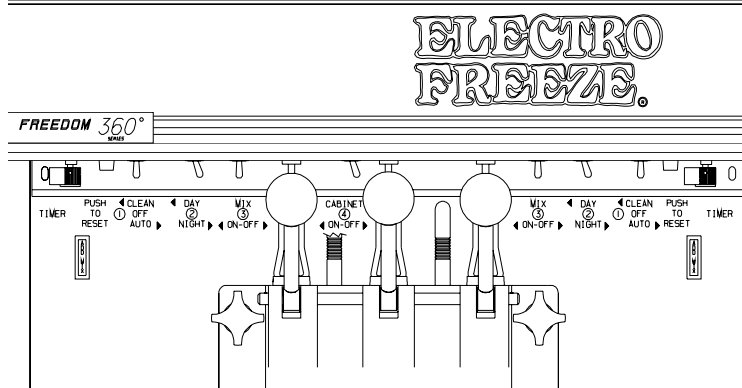
1. Make sure that your hands, forearms, and all freezer assemblies are sanitized.
2. Holding the top 6-inch portion only, insert the pickup tubes into the sanitized mix container through the small hole in the rear cover and set containers in the cabinet.
3. Fill the mix containers with mix and install the front covers.
4. Insert the low mix probes through the large hole in the rear cover, and connect the probe cords to the probes and to the back of the cabinet.
5. Turn the cabinet switch to "ON" and close the cabinet door.



M00858

Priming The Freezer (continued)

6. Place an empty container under the dispensing head on the drip tray.
7. Open the side plungers and air bleed plugs.
8. Turn the MTS switches to "ON" and allow the mix to push the remaining sanitizer from the cylinders through the plunger openings.



9. Close the side plungers when pure mix is coming out.

Important:

Failure to completely remove sanitizer or water from the freezing cylinder before placing in "AUTO" will damage the freezer.

10. After mix appears at the bottom of the head (approximately 50–55 seconds), close the air bleed plugs and wait for the MTS to fill the cylinders and shut off.

OPERATING INSTRUCTIONS			
DAY		NIGHT	
①	AUTO	①	AUTO
②	DAY	②	NIGHT
③	ON	③	OFF
④	ON	④	ON

11. After the MTS has cycled off (approximately 30 seconds) turn both selector switches to "AUTO", both DAY/NIGHT switches to "DAY", and both MTS switches to "ON".
12. Allow the freezer to cycle for 15 minutes. Sanitize the nozzles and install on the head. The product is now ready to serve.

Problem? Contact your local authorized distributor or the freezer manufacturer, Electro Freeze Service Department, 2116 Eighth Avenue, East Moline, IL 61244, (309) 755-4553 or FAX (309)

ELECTRO FREEZE

Part No. 184871

Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Actuator-Assy. Door Switch	118597	2	I2G-2214 —
Adaptor-Overload Din Rail	150145	2	I2G-2214 —
Arm-Shoe Pivot (MTS)	138797	2	I2G-2214 —
Arm-Swing Clamp (MTS)	138799	2	I2G-2214 —
Base-Probe Mtg.	137120	2	I2G-2214 —
Bearing-High Speed Cone	153015	4	I2G-2214 —
Bearing-High Speed Cup	153014	4	I2G-2214 —
Bearing-Slow Speed Cone	153012	4	I2G-2214 —
Bearing-Slow Speed Cup	153011	4	I2G-2214 —
Belt-V (LH)	153171	2	I2G-2214 —
Belt-V (RH)	153161	2	I2G-2214 —
Blade-Fan 11" 36° (Air Cooled)	159023	4	I2G-2214 —
Blade-Fan 11" Dia 36° (Air Cooled Remote)	159029	4	I2G-2214 —
Blade-Scraper Front (Short)	138830	2	I2G-2214 —
Blade-Scraper Rear (Long)	138831	2	I2G-2214 —
Block-Installation RMT (MTS)	165524	2	I2G-2214 —
Boot-Mix Tube (Seal)	199033	2	I2G-2214 —
Bottle-Wash-Plunger and MTS	196103	*	I2G-2214 —
Box-Assy. Capacitor and Relay (1 Phase)	118647	2	I2G-2214 —
Box-Electric 2-3/4 x 4-1/2 x 2 (Air Cooled Remote)	150732	2	I2G-2214 —
Bracket-Assy. Electric Box (Air Cooled Remote)	117197	2	I2G-2214 —
Bracket-Assy. Front (Air Cooled)	116565	4	I2G-2214 —
Bracket-Assy. Rear (Air Cooled)	116564	2	I2G-2214 —
Bracket-Assy. Switch Mtg. (MTS-RMT)	118763	2	I2G-2214 —
Bracket-Fan Condenser (Air Cooled Remote)	137632	4	I2G-2214 —
Bracket-Flange Relay Mtg. (Relay Box)	138159	2	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

Use only original or authorized replacement parts with this freezer.

Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Brush-1-inch Dia. 12-inch Long	158026	*	I2G-2214 —
Brush-4-inch w/36" Handle (Cylinder)	158004	*	I2G-2214 —
Brush-4-inch w/o Handle (Cylinder)	158009	*	I2G-2214 —
Brush-7/16-inch Dia. 12-inch OAL	158018	*	I2G-2214 —
Brush-9/16-inch Dia. 30-inch OAL	158019	*	I2G-2214 —
Bushing-Dispense Head	138427	2	I2G-2214 —
Bumper-Rubber (Drip Tray Insert)	199030	4	I2G-2214 —
Button-Overload Reset Adapator	150150	2	I2G-2214 —
Button-Reset (Lever-Assy. Rest)	159036	2	I2G-2214 —
Capacitor-Run (Beater Motor)	150318	2	I2G-2214 —
Capacitor-Run (Compressor)(Maneurop)	151447	2	I2G-2214 —
Capacitor-Start (Beater Motor)	150319	2	I2G-2214 —
Capacitor-Start & Relay Kit (Compressor)(Maneurop)	151448	*	I2G-2214 —
Caster-1-1/4" ST PT with Brake	162105	2	I2G-2214 —
Caster-1-1/4" ST PT without Brake	162106	2	I2G-2214 —
Catch-Bullet (Drip Tray)	159175	2	I2G-2214 —
Channel-Rear R.H. (Corner)	130021	2	I2G-2214 —
Channel-Rear L.H. (Corner)	135254	2	I2G-2214 —
Chart-O-ring (Laminated)	184256	1	I2G-2214 —
Clamp-Assy. Soft Hose 5/8	116065	6	I2G-2214 —
Clamp-Hose Drain	160738	1	I2G-2214 —
Clamp-Ring (Mix Feed Seal)	139353	2	I2G-2214 —
Clamp-Ring Threaded (Mix Feed Seal)	139352	2	I2G-2214 —
Clamp-Shoe Swing	138798	2	I2G-2214 —
Clip-Retainer	150120	4	I2G-2214 —
Clip-Tube Retainer	162324	2	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

Use only original or authorized replacement parts with this freezer.

Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Coil-Evaporator (Shroud Assembly)	155111	1	I2G-2214 —
Coil-Replacement Contactor	150134	*	I2G-2214 —
Collar-Alignment (Mix Feed Seal)	139351	2	I2G-2214 —
Compressor-Assy. (1ph)(Maneurop)	118685	2	I2G-2214 —
Capacitor-Run	151447	1	I2G-2214 —
Drier-Filter	155054	2	I2G-2214 —
Kit-Compr. Start Capacitor & Relay	151448	1	I2G-2214 —
Compressor-Assy. (3ph)(Maneurop)	118686	1	I2G-2214 —
Drier-Filter	155054	2	I2G-2214 —
Condenser-Air (Air Cooled)	155120-C	2	I2G-2214 —
Condenser-Assy. 2 Hp remote (Complete)	116781-C	2	I2G-2214 —
Condenser-Water LH (A Side)(Water Cooled)	155039	1	I2G-2214 — D2H-838
Condenser-Water RH (B Side)(Water Cooled)	155026	1	I2G-2214 — D2H-838
Condenser-Water (Water Cooled)	155029	2	D2H-839—
Connector-1/2 (Relay Box)	150828	4	I2G-2214 —
Connector-3/8 x 90° (MTS-RMT)	150705	4	I2G-2214 —
Contact-IEC			
(Beater Motor, Compressor & Fan)	150135	4	I2G-2214 —
Container-Mix	See "Tank"		
Control-Pressure Fan	155466	2	I2G-2214 —
Cord-Assy. Female Plug	150533	1	I2G-2214 —
Cord-Assy. Male Plug	150532	1	I2G-2214 —
Cord-Assy. Motor (MTS)	118833	2	I2G-2214 —
Cordset-Mix Level Probe	150537	2	I2G-2214 —
Coupling-Assy. 1 inch Drive	111964	2	I2G-2214 —
Coupling-Refr. 1/2M w/Stub	153410	2	I2G-2214 —
Coupling-Refr. 3/8M w/Stub	153413	2	I2G-2214 —
Cover-Assy. Condenser	117207	2	I2G-2214 —
Cover-Assy. Front Mix Tank	113997	2	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

Use only original or authorized replacement parts with this freezer.

Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Cover-Assy. RMT	118767	2	I2G-2214 —
Cover-Rear Mix	138165	2	I2G-2214 — F2H
Cover-Rear Mix RMT	138165-01	2	F2H —
Cup-Overrun (use with P/N 158049 scale)	158051	*	I2G-2214 —
Cut Out-Pressure High	155425	2	I2G-2214 —
Cut Out-Pressure Low (Water & Air Cooled)	155403	2	I2G-2214 —
Cut Out-Pressure Low (Air Cooled Remote)	155465	2	I2G-2214 —
Cylinder-Assy. Complete	118689	2	I2G-2214 —
Decal-6" Air Flow	165119	1	I2G-2214 —
Decal-Beater Warning	165025	1	I2G-2214 —
Decal-Blade Installation	164031	1	I2G-2214 —
Decal-Cleaning Instructions	165307	1	I2G-2214 — A2I-151
Decal-Cleaning Instructions	164113	1	A2I-152 —
Decal-Clear Overlay	165093	1	I2G-2214 —
Decal-CMT Connection Red Line	164110	1	I2G-2214 —
Decal-CMT Patent	165013	1	I2G-2214 —
Decal-Freedom 360° Trimstrip	165191	1	I2G-2214 —
Decal-MTS Trimstrip LH	164041	1	I2G-2214 — A2I-151
Decal-MTS Trimstrip LH	164020	1	A2I-152 —
Decal-MTS Trimstrip RH	164042	1	I2G-2214 — A2I-151
Decal-MTS Trimstrip RH	164021	1	A2I-152 —
Decal-Operating Instructions	164043	1	I2G-2214 — A2I-151
Decal-Operating Instructions	164004-01	1	A2I-152 —
Decal-Top Air Discharge	165124	1	I2G-2214 —
Decal-Trimstrip EF Logo 26"	165188-01	1	I2G-2214 —
Decal-Panel Removal	165126	3	I2G-2214 —
Decal-Warning Pressurized	165246	4	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Decal-Warning Rotating Parts	165041	2	I2G-2214 —
Door-Assy.	114260-C	1	I2G-2214 —
Pull-Door (Handle)	136199	1	I2G-2214 —
Drier-Filter	155054	2	I2G-2214 —
Duckbill-Inlet (Valve)	199032	2	I2G-2214 — L2H
Duckbill-Inlet RM MTS (Valve)	199032-01	**	L2H —
Faceplate-Assy. MTS	118764	2	I2G-2214 —
Fan-Intake (Cabinet)	151105	1	I2G-2214 —
Filter-Assy. (L.H.) (Switch Box)	116125	1	I2G-2214 —
Flange-Refr. Coupling Mount 1/2	153415	2	I2G-2214 —
Flange-Refr. Coupling Mount 3/8	153414	2	I2G-2214 —
Gasket-Magnetic Door (V-Groove)	160563	1	I2G-2214 —
Gasket-Mix Joint (Mix Feed Seal)	160556	2	I2G-2214 —
Gear-Assy. Output (Slow Speed)	153000	2	I2G-2214 —
Gear-Bronze	153349	2	I2G-2214 —
Gearmotor-1/8 HP (MTS)	151132	2	I2G-2214 —
Glass-Sight	155059	2	I2G-2214 —
Guard-Fan Open	151076	2	I2G-2214 —
Handle- Assy. Dispense Center	114808	1	I2G-2214 —
Handle-Assy	114809	1	I2G-2214 —
Knob-Ball 3/8-16 THD Black	162629	1	I2G-2214 —
Handle-Assy. Dispense (Side)	110007	2	I2G-2214 —
Knob-Ball 3/8-16 THD Black	162629	2	I2G-2214 —
Hanger-Assy. Air Condenser	113989	2	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Head-Assy.Dispense Complete	116042	1	I2G-2214 —
Head-Only	116041	1	I2G-2214 —
O-Ring (Head)	159309	1	I2G-2214 —
Plunger-Side Self Dispense	137174	2	I2G-2214 —
O-Ring (Plunger)	160501	8	I2G-2214 —
Plunger-Dispense Center	138009	1	I2G-2214 —
Plug-Air Bleed (Relief)	138149	2	I2G-2214 —
O-Ring (Air Plug)	160610	4	I2G-2214 —
Pin-Handle	160269	1	I2G-2214 —
Handle-Assy. Dispense (Side)	110007	2	I2G-2214 —
Knob-Ball 3/8-16 THD Black	162629	2	I2G-2214 —
Handle-Assy. Dispense Center	114808	1	I2G-2214 —
Handle-Assy.	114809	1	I2G-2214 —
Knob-Ball 3/8-16 THD Black	162629	1	I2G-2214 —
Nozzle-Serrated	196185	1	I2G-2214 —
Hinge-Pivot 1-3/8 Top L.H.	162045	1	I2G-2214 —
Spring-L.H.	162052	1	I2G-2214 —
Hinge-Pivot 1-3/8 Bottom L.H.	162046	1	I2G-2214 —
Hose-Assy. Mix Braided	116094	2	I2G-2214 —
Hose-Transfer Red Line	138836	2	I2G-2214 —
Indicator-Mix Level	150202	2	I2G-2214 —
Insert-Assy. Drip Tray 26"	115132	1	I2G-2214 —
Bumper-Rubber	199030	4	I2G-2214 —
Insert-Drip Tray	137282	1	I2G-2214 —
Key-Drive 1/4" Slow (Gear Reducer)	153323	2	I2G-2214 —
Key-Drive 3/16 sq x 1-1/2 (Gear Reducer, Driven & Driver Sheaves)	153322	4	I2G-2214 —
Kit-CMT Double EF Redline	118747	*	I2G-2214 —
Kit-Compressor Start Cap.& Relay(Maneurop)	151448	*	I2G-2214 —
Kit-Cover Switch RMT Freezer (MTS-RMT)	118894	*	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Kit-Dispense Head Switch	116410	*	I2G-2214 —
Kit-Motor & Cap 2HP (1ph)(Beater Motor)	118254	2	I2G-2214 —
Capacitor-Run	150318	2	I2G-2214 —
Capacitor-Start	150319	2	I2G-2214 —
Kit-O-Ring	118897	*	I2G-2214 —
Kit-Pressure Switch 30 psi	118712	*	I2G-2214 —
Kit-Reducer Gasket 4CB	114874	*	I2G-2214 —
Kit-Repair Solenoid Valve	155434	*	I2G-2214 —
Kit-Roller	116009-01	*	I2G-2214 —
Kit-Water Valve Repair	155444	*	I2G-2214 —
Knob-Ball 3/8-16 THD Black	162629	3	I2G-2214 —
Knob-Cover RMT (MTS)	138889	2	I2G-2214 —
Knob-Hand (Head Assembly)	162625	4	I2G-2214 —
Knob-Hand (MTS)	162622	2	I2G-2214 —
Knob-Timer (Switch Box)	162604	2	I2G-2214 —
Lanyard-Wire (MTS)	138890	2	I2G-2214 —
Leg-Assy. 6-inch	112978	4	I2G-2214 —
Lever-Reset & Button	118390	2	I2G-2214 —
Button-Reset	159036	2	I2G-2214 —
Light-Indicator	150540	2	I2G-2214 —
Line Sets - 25 Foot Kit 404a	117292	*	I2G-2214 —
Line Sets - 50 Foot Kit	117293	*	I2G-2214 —
Lubricant-Petrol Gel 4 oz (per tube)	158000A	*	I2G-2214 —
M.O.V.-Assy (Switch Box)	116188	2	I2G-2214 —
Meter-Air	<i>Order by meter number</i>		
Module-Plug on Vari Time	150253	2	A2I-152 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Motor-2 HP (1ph) (Beater Motor)	See "Kit-Motor & Cap"		
Motor-2 HP (3ph) (Beater Motor)	151066	2	I2G-2214 —
Motor-Fan 50w 230v (Air Cooled)	151077-01	4	I2G-2214 —
Motor-Fan 50W 230V 60Hz (Air Cooled Remote)	151072	4	I2G-2214 —
Motor-Gearmotor 1/8 HP (MTS-RMT)	151132	2	I2G-2214 —
MT-Assy CAB Redline	118751	2	I2G-2214 —
Nozzle-Serrated (Head Assembly)	196185	**	I2G-2214 —
Nut-Assy. Pressure Switch	116105	2	I2G-2214 —
Nut-#6-32 BKOX (Relay Box)	160116	4	I2G-2214 —
Nut-HEX 1/4-20 ZN (Switch Assembly)	160104	3	I2G-2214 —
Nut-HEX 3/8-16 ZN (MTS)	160453	2	I2G-2214 — L2G
Nut-HEX 3/8-16 SST (MTS)	159927	2	A2H-100 —
Nut-HXSF 1/4-20 ZN (Relay Box)	159951	4	I2G-2214 —
Nut-HXSF 1/4-20 ZN (MTS)	159951	3	I2G-2214 — L2G
Nut-HXSF 1/4-40 ZN (MTS)	159933	3	A2H-100 —
Nut-Push Round	160289	2	I2G-2214 —
Nut-Speed #10-24 .100-.125 (On Frame)	159067	*	I2G-2214 —
Nut-Speed #10-24 .025-.064 SST (Dispense & Front Panels)	159132	*	I2G-2214 —
Nut-Speed 1/4-20 .064-.125 (Rear Channel)	160117	*	I2G-2214 —
Nut-Speed 1/4-20 BP&O (Rear & Side Panels)	160114	*	I2G-2214 —
Oil-Gear Reducer (per quart)	158055	*	I2G-2214 —
O-Ring (Tube-Assy. Pickup)	160502	**	I2G-2214 —
O-Ring (Air Plug)	160610	**	I2G-2214 —
O-Ring (Head)	159309	**	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
O-Ring (Plunger)	160501	**	I2G-2214 —
O-Ring (Swing Clamp MTS-RMT)	160628	**	I2G-2214 —
O-Ring (Seal)	160500	**	I2G-2214 —
O-Ring (Roller Shoe MTS-RMT)	160612	**	I2G-2214 —
O-Ring Kit	118897	*	I2G-2214 —
Pan-Condensate (w/ ceiling type-26")	117133	1	I2G-2214 —
Panel-Dispense (w/ lights)	137297-C	1	I2G-2214 —
Panel-Assy. Front	113985-C	1	I2G-2214 —
Panel-Rear (Air Cooled and Water Cooled)	136313-C	1	I2G-2214 —
Panel-Side LH	136289-C	1	I2G-2214 —
Panel-Side RH	136216-C	1	I2G-2214 —
Panel-Spacer (Rear & Side Panels)	138456	*	I2G-2214 —
Panel-Switch Box w/EF Label (Trimstrip)	115292-03	1	I2G-2214 —
Panel-Assy. Top (Air Cooled)	116567-C	1	I2G-2214 —
Panel-Assy. Top (Water Cooled & Air Cooled Remote)	114157-C	1	I2G-2214 —
Panel-Lower Rear (Air Cooled Remote)	138983	1	I2G-2214 —
Panel-Upper Rear (Air Cooled Remote)	138982	1	I2G-2214 —
Pickup Tube-Assy. Mix	See "Tube-Assy. Pickup 2 Piece"		
Pin-Dowel 1/4 DIA x 3/4 SST (MTS)	160338	4	I2G-2214 —
Pin-Handle (Head Assembly)	160269	1	I2G-2214 —
Plate-Backup MTS	139746	2	I2G-2214 —
Plug-Air Bleed	138149	2	I2G-2214 —
Plunger-Dispense Center (Head Assembly)	138009	1	I2G-2214 —
Plunger-Side Self Dispense (Head Assembly)	137174	2	I2G-2214 —
Port-Assy. Inlet Mix/Air (MTS Hose Assy.)	118765	2	I2G-2214 —
Probe-Assy. 6 gallon	116439	2	I2G-2214 —
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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Probe-Assy. Mix Level 10-3/4" (7 Gal.)	115397	2	I2G-2214 —
Base-Probe Mtg.	137120	2	I2G-2214 —
Pull-Door (Handle Cabinet)	136199	1	I2G-2214 —
Pulley	See "Sheave"		
Push Rod-Assy. Plunger Switch (Head Assy)	116089	3	I2G-2214 —
Receiver-3 lb. 3/8 ID Sweat	155057	2	I2G-2214 —
Receiver-12 lb. Horizontal Mount	155058	2	I2G-2214 —
Receptacle-Molded Level Sensor	150536	2	I2G-2214 —
Reducer-Gear	153341	1	I2G-2214 —
Reducer-Gear Gasket Set	114874	*	I2G-2214 —
Relay-Assy. Overload 1 phase 5-15A	118359	2	I2G-2214 —
Adaptor-Overload Din Rail	150145	2	I2G-2214 —
Button-Overload Reset Adaptor	150150	2	I2G-2214 —
Relay-SS Overload 1ph 5-15A	150140	2	I2G-2214 —
Relay-Assy. Overload 3 phase 3.7-12A	118361	2	I2G-2214 —
Adaptor-Overload Din Rail	150145	2	I2G-2214 —
Button-Overload Reset Adaptor	150150	2	I2G-2214 —
Relay-SS Overload 3ph 3.7-12A	150142	2	I2G-2214 —
Relay-Flange Base w/Cover	150381	3	I2G-2214 —
Resistor-Assy. (Switch Box)	116154	2	I2G-2214 — A2I-151
Ring-Retaining 5/8 Ext. SST (Mix Feed Seal)	160312	4	I2G-2214 —
Roller-Kit	116009-01	*	I2G-2214 —
Sanitizer-Stera-Sheen (per case/4 jars)	158014	*	I2G-2214 —
Sanitizer-Stera-Sheen (per 4 lb. jar)	158014A	*	I2G-2214 —
Scale-Overrun Z32	158049	*	I2G-2214 —
Screw-HXHC 1/4-20 x 2-1/2 SST (MTS-RMT)	160464	4	I2G-2214 —
Screw-HXHC 1/4-20 x 3-1/2 SST (MTS-RMT)	160465	2	I2G-2214 —
Screw-HXHM 4-20 x 2-1/2 ZN (Switch Assy.)	159965	3	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Screw-HXSF 1/4-20 x 1/2 ZN (MTS-RMT)	159950	2	I2G-2214 — L2G
Screw-HXSF 1/4-20 x 1/2 ZN (Relay Box)	159950	4	I2G-2214 —
Screw-RDHM #4-40 x 1/4 (RMT Cover Switch Kit)	160357	4	I2G-2214 —
Screw-RDHM #4-40 x 1/4 (MTS-RMT)	160357	2	A2H-100 —
Screw-RDHM #6-32 x 5/16 ZN (Relay Box)	160308	4	I2G-2214 —
Screw-RHMS 1/4-28 x 2-1/4 SST (MTS-RMT)	160093	8	I2G-2214 —
Screw-SKHC #10-24 x 1-3/4 SST (Mix Feed Seal)	160320	6	I2G-2214 —
Screw-Sk Set 1/4-20 x 1/4 (Driven & Driver)	160495	4	I2G-2214 —
Screw-TRPM #10-24 x 1/2 SST (Dispense & Front Panels)	160076	*	I2G-2214 —
Screw-TRPM #10-24 x 3/8 SST (Top Panel)	160305	*	I2G-2214 —
Screw-TRPM 1/4-20 x 1 SST (Side Panels)	159219	*	I2G-2214 —
Screw-TRPM 1/4-20 x 1/2 SST (Rear Panels & Channels)	160048	*	I2G-2214 —
Seal-Assy. Shaft (Beater Shaft Assy.)	111875	**	I2G-2214 —
O-ring (Seal)	160500	**	I2G-2214 —
Seal-Beater Shaft (Cup)	160557	**	I2G-2214 —
Washer-Shaft Seal (Bushing)	133098	**	I2G-2214 —
Seal-Beater Shaft (Cup-Seal Shaft Assy.)	160557	2	I2G-2214 —
Seal-Oil (High Speed)(Gear Reducer)	153053	4	I2G-2214 —
Seal-Oil (Slow Speed)(Gear Reducer)	153051	4	I2G-2214 —
Sensor-10K Thermistor	161216	2	I2G-2214 —
Shaft-Assy. Beater	117079	2	I2G-2214 —
Shaft-Input (High Speed)(Gear Reducer)	153348	2	I2G-2214 —
Shaft-Slow Speed (Gear Reducer)	153350	2	I2G-2214 —
Sheave-7/8 Bore 3.25 OD (Driver)	153626	2	I2G-2214 —
Sheave-3/4 Bore 4.75 OD (Driven)	153625	2	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Shield-Drip (MTS)	139756	2	I2G-2214 —
Shield-Motor Rain (Air Cooled Remote)	139017	4	I2G-2214 —
Shoe-Roller (MTS)	139751	2	I2G-2214 —
Shroud-Assy. Evaporator	117129-01	1	I2G-2214 —
Coil-Evaporator	155111	1	I2G-2214 —
Cord-Assy. Male plug	150532	1	I2G-2214 —
Fan-Intake (Cabinet)	151105	1	I2G-2214 —
Guard-Fan Open	151076	1	I2G-2214 —
Switch Door Push Button	150416	1	I2G-2214 — K2H-2699
Switch Door Push Button	150509	1	K2H-2700—
Thermometer-Barrel	161004	1	I2G-2214 —
Shroud-Fan	138465	2	I2G-2214 —
Sleeve-Cable Stop 3/64 (MTS)	160508	4	I2G-2214 —
Socket-Octal (Switch Box)	150119	2	I2G-2214 —
Spacer-Motor (MTS-RMT)	138793	8	I2G-2214 —
Spacer-Panel (Rear & Side Panels)	138456	*	I2G-2214 —
Spacer-Swing Arm (MTS-RMT)	138800	4	I2G-2214 —
Spring-Compression (Switch Assembly)	162323	3	I2G-2214 —
Strip-Terminal (Switch Box)	150795	2	I2G-2214 —
Stud-5/16-18 x 3/4 SST (MTS)	160386	2	I2G-2214 —
Stud-Assy. Cylinder 3-15/16	114341-05	4	I2G-2214 —
Support-Condenser (Air Cooled Remote)	137629	4	I2G-2214 —
Support-MTS (Relay Box)	139805	2	I2G-2214 —
Support-Roller Bearing (MTS-RMT)	138783-01	2	I2G-2214 —
Switch-Assy. Self Closing Plunger (Center)	114178-01	1	I2G-2214 —
Spring-Compression	162323	1	I2G-2214 —
Switch-Roller Actuator DPDT	150478	1	I2G-2214 —
Switch-Assy. Self Closing Plunger (Sides)	114176-01	1	I2G-2214 —
Spring-Compression	162323	1	I2G-2214 —
Switch-Roller Actuator SPDT	150477	1	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

Use only original or authorized replacement parts with this freezer.

Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Switch-Door Push Button (Shroud Assy.)	150416	1	I2G-2214 — K2H-2699
Switch-Door Push Button (Shroud Assy.)	150509	1	K2H-2700—
Switch-Dispense Head Kit	116410	*	I2G-2214 —
Switch-Pressure Kit	118712	*	I2G-2214 —
Switch-Roller Actuator DPDT (Center)	150478	1	I2G-2214 —
Switch-Roller Actuator SPDT (Sides)	150477	2	I2G-2214 —
Switch-Cover RMT Kit (MTS-RMT)	118894	2	I2G-2214 —
Switch-Toggle 3PDT Center OFF (Selector)(Switch Box)	150465	2	I2G-2214 —
Switch-Toggle DPDT Center OFF (MTS)(Switch Box)	150463	2	I2G-2214 — A2I-151
Switch-Toggle SPST(MTS)(Switch Box)	159235	2	A2I-152 —
Switch-Toggle DPST(DAY/NIGHT)(Switch Box)	150435	2	I2G-2214 — A2I-151
Switch-Toggle SPST(DAY/NIGHT)(Switch Box)	159235	2	A2I-152 —
Switch-Toggle SPST (Cabinet)(Switch Box)	159235	1	I2G-2214 —
Tank-Mix 7 Gal. 13-1/2"	196222	2	I2G-2214 —
Thermometer-Barrel (Shroud Assy.)	161004	1	I2G-2214 —
Thermostat-Kit (Cabinet)	118868	1	I2G-2214 —
Thermostat-Low (Day & Night)	155442	2	I2G-2214 —
Timer-.5-60 Delay on Break (Switch Box)	150252-01	2	A2I-152 —
Timer-12 Sec. Delay on Break (Switch Box)	150208	2	I2G-2214 —
Timer-5 Minute (Switch Box)	150215	2	I2G-2214 — H2H-1997
Timer-5 Minute (Switch Box)	Order by freezer SN H2H-1998 — H2H-2016		
Timer-5 Minute (Switch Box)	150218	2	H2H-2017—
Tool-O-Ring Removal	169374	*	I2G-2214 —
Tray-Drip 26" Black	196108	1	I2G-2214 —
Trimstrip-Assy EF Decal 26 inch	115292-03	1	I2G-2214 —
Tube-Air	138170-02	2	I2G-2214 —
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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Tube-Assy. Drain 20-1/4	115004-01	1	I2G-2214 —
Tube-Assy. Mix Inlet (MTS Hose Assy.)	118836	2	I2G-2214 —
Tube-Assy. Pickup (MTS Hose Assy.)	118842	2	I2G-2214 —
Clip-Tube Retainer	162324	2	I2G-2214 —
O-ring	160502	2	I2G-2214 —
Port-Assy. Inlet Mix/Air	118765	2	I2G-2214 —
Tube-Assy. Mix Inlet	118836	2	I2G-2214 —
Tube-Drain Support	138919	1	I2G-2214 —
Tube-Mix Feed Clamp (Mix Feed Seal)	139349	2	I2G-2214 —
Tubing-3/8 ID x 1/2 OD	196068	2.25'	I2G-2214 —
Valve-1/2 Service Rotalock RH	155047	1	I2G-2214 —
Valve-1/2 Service Rotalock LH	155049	1	I2G-2214 —
Valve-Automatic Expansion (Cylinder)	155448	2	I2G-2214 — F2H-1379
Valve-Automatic Expansion (Cylinder)	155451	2	F2H-1380 —
Valve-Automatic Expansion (Cabinet)	155449	1	I2G-2214 —
Valve-Head Pressure Control (Air Cooled Remote)	155454	2	I2G-2214 —
Valve-Solenoid	155421	3	I2G-2214 —
Valve-Solenoid Repair Kit	155434	*	I2G-2214 —
Valve-Water	155410	2	I2G-2214 —
Valve-Water Repair Kit	155444	*	I2G-2214 —
Washer-Curved Spring (MTS)	160145	4	I2G-2214 —
Washer-Flat #6 Brass (RMT Cover Switch Kit)	160393	4	I2G-2214 —
Washer-Flat 3/8 ZN (MTS)	160132	4	I2G-2214 — L2G
Washer-Flat 3/8 SST (MTS)	160169	4	A2H-100 —
Washer-Lock #10 SST (Mix Feed Seal)	160166	6	I2G-2214 —
Washer-Lock 3/8 ZN (MTS)	160143	4	I2G-2214 — L2G
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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Alphabetized Parts List for Model 30T-RMT

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Washer-Lock 3/8 SST (MTS)	160170	4	A2H-100 —
Washer-Shaft Seal(Bushing-Beater Shaft Seal)	133098	2	I2G-2214 —
* As Required ** Items Included In O-Ring Kit No. 118897 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available			

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